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Introduction

This file gives CE declarations and performances for basis glass products of AGC Glass Europe :

- Float
- Patterned glass
- Wired glass
- Polished wired glass
- Coatings
- Heat treated glass

For laminated glass and insulating glass unit, some glass compositions are indicated but it is not possible to list all glass structures. The CE declarations and performances of these products are available on www.YourGlass.com in one of the dynamic tools of My Glass Toolbox:

- Advanced product finder
- Glass Configurator

General informations concerning CE-Marking and links to these tools are available at www.YourGlass.com/CE.

Remark

Some products listed in this file are out of range, not standard in catalogue and/or only dedicated to a specific market.

For the availability, please consult www.YourGlass.com.

Anti-reflective glass



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Planibel Clearsight (annealed)



We

AGC Glass Europe
Building Division

Avenue Jean Monnet 4 - 1348 Louvain-la-Neuve - Belgium
Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Clearsight**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Clearsight characteristics in :	AVCP Systems	4 mm	5mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,89	NPD 0,89	NPD 0,89	NPD 0,89	NPD 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	95 / 5 / 5	95 / 5 / 5	95 / 5 / 5	95 / 5 / 5	94 / 5 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	85 / 12 / 12 86	85 / 12 / 12 86	85 / 12 / 12 86	84 / 12 / 12 85	84 / 11 / 12 85
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
5th of October 2016

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Planibel Clearsight Double Sided (annealed)



We

AGC Glass Europe
Building Division

Avenue Jean Monnet 4 - 1348 Louvain-la-Neuve - Belgium
Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Clearsight Double Sided**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Clearsight Double Sided characteristics in :	AVCP Systems	4 mm	5mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,89	NPD 0,89	NPD 0,89	NPD 0,89	NPD 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	99 / 1 / 1	98 / 1 / 1	98 / 1 / 1	98 / 1 / 1	98 / 1 / 1
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	83 / 14 / 14 84	83 / 14 / 14 84	82 / 14 / 14 83	82 / 14 / 14 83	81 / 14 / 14 83
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
5th of October 2016

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building

Artlite



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Artlite / Artlite Digital Heat strengthened



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Artlite / Artlite Digital Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Artlite/Artlite Digital Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673)	3	NPD	NPD	NPD	NPD	NPD
	- Normal emissivity ϵ_n coated side (EN 12898)		NPD	NPD	NPD	NPD	NPD
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	NPD	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e	3	NPD	NPD	NPD	NPD	NPD
	- Solar factor: g		NPD	NPD	NPD	NPD	NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Artlite / Artlite Digital Thermally toughened or Heat soaked thermally toughened



We

AGC Glass Europe
Building Division
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Artlite/Artlite Digital Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004:2004 / EN 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Artlite/Artlite Digital Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673)	3	NPD	NPD	NPD	NPD	NPD
	- Normal emissivity ϵ_n coated side (EN 12898)		NPD	NPD	NPD	NPD	NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	3	NPD	NPD	NPD	NPD	NPD
	- Solar factor: g		NPD	NPD	NPD	NPD	NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Artlite / Artlite Digital Thermally toughened or Heat soaked thermally toughened



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Artlite/Artlite Digital Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004:2004 / EN 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Artlite/Artlite Digital Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	12 mm	15 mm	19 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	35 (-2;-3)	NPD	NPD
11.	- U-value (EN 673)	3	NPD	NPD	NPD
	- Normal emissivity ϵ_n coated side (EN 12898)		NPD	NPD	NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	3	NPD	NPD	NPD
	- Solar factor: g		NPD	NPD	NPD
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building

Colorbel



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Colorbel Heat strengthened



We

AGC Glass Europe
Building Division

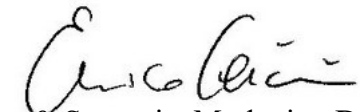
Avenue Jean Monnet 4 - 1348 Louvain-la-Neuve - Belgium
Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Colorbel Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Colorbel Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673)	3	NPD	NPD	NPD	NPD	NPD
	- Normal emissivity ϵ_n coated side (EN 12898)		NPD	NPD	NPD	NPD	NPD
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	NPD	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e	3	NPD	NPD	NPD	NPD	NPD
	- Solar factor: g		NPD	NPD	NPD	NPD	NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Colorbel Thermally toughened or Heat soaked thermally toughened



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Colorbel Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Colorbel Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	NPD	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Colorbel Thermally toughened or Heat soaked thermally toughened



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Colorbel Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Colorbel Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	12 mm	15 mm	19 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	35 (-2;-3)	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building

Energy



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Energy Light (annealed)



We

AGC Glass Europe
Building Division

Avenue Jean Monnet 4 - 1348 Louvain-la-Neuve - Belgium
Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Energy Light**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Energy Light characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	71 / 20 / 22	71 / 20 / 22	71 / 20 / 22	70 / 20 / 22	69 / 20 / 21	69 / 20 / 21
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	45 / 44 / 39 NPD	44 / 44 / 38 NPD	44 / 44 / 37 NPD	43 / 44 / 35 NPD	42 / 44 / 33 NPD	42 / 44 / 31 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
4th of May 2017

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Energy Light Heat strengthened



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Energy Light Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Energy Light Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	71 / 20 / 22	71 / 20 / 22	71 / 20 / 22	70 / 20 / 22	69 / 20 / 21	69 / 20 / 21
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	45 / 44 / 39 NPD	44 / 44 / 38 NPD	44 / 44 / 37 NPD	43 / 44 / 35 NPD	42 / 44 / 33 NPD	42 / 44 / 31 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 4th of May 2017


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Energy Light Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Energy Light Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Energy Light Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C3	1C2	1C2	1C1	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	71 / 20 / 22	71 / 20 / 22	71 / 20 / 22	70 / 20 / 22	69 / 20 / 21	69 / 20 / 21
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	45 / 44 / 39 NPD	44 / 44 / 38 NPD	44 / 44 / 37 NPD	43 / 44 / 35 NPD	42 / 44 / 33 NPD	42 / 44 / 31 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 4th of May 2017

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building

Imagin



CE Marking of Patterned glass - EN 572-9:2004
Declaration of performances
Imagin clear (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Imagin Clear**, intended to be used in buildings and construction works, following **EN 572-9:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Imagin clear characteristics in :	AVCP Systems	2 mm	3 mm	4 mm	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	29 (-2;-5)	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	91 / 8 / 8	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	87 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	88 / 8 / 8 89	86 / 8 / 8 87	84 / 8 / 8 86	82 / 7 / 7 85	80 / 7 / 7 83	77 / 7 / 7 81
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Patterned glass - EN 572-9:2004
Declaration of performances
Imagin clear (annealed)



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Imagin Clear**, intended to be used in buildings and construction works, following **EN 572-9:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Imagin clear characteristics in :	AVCP Systems	10 mm	13,5 mm	15 mm	19mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (-2;-3)	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,6 0,89	5,5 0,89	5,5 0,89	5,4 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	87 / 8 / 8	85 / 8 / 8	84 / 8 / 8	82 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	74 / 7 / 7 79	70 / 7 / 7 NPD	67 / 6 / 6 NPD	63 / 6 / 6 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Imagin clear Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Imagin Clear Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Imagin clear Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ε_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	87 / 8 / 8	87 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	84 / 8 / 8 86	82 / 7 / 7 85	80 / 7 / 7 83	77 / 7 / 7 81	74 / 7 / 7 79
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Imagin clear Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Imagin Clear Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Imagin clear Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	87 / 8 / 8	87 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	84 / 8 / 8 86	82 / 7 / 7 85	80 / 7 / 7 83	77 / 7 / 7 81	74 / 7 / 7 79
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Imagin clear Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Imagin Clear Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Imagin clear Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	13,5 mm	15 mm	19mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,5 0,89	5,5 0,89	5,4 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	85 / 8 / 8	84 / 8 / 8	82 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	70 / 7 / 7 NPD	67 / 6 / 6 NPD	63 / 6 / 6 NPD
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building

Imagin wired



CE Marking of Wired patterned glass - EN 572-9:2004
Declaration of performances
Imagin wired clear (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Imagin Wired Clear**, intended to be used in buildings and construction works, following **EN 572-9:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Imagin wired clear characteristics in :	AVCP Systems	6 mm	7 mm	9 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	89 / 8 / 8	88 / 8 / 8	87 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	80 / 7 / 7 83	79 / 7 / 7 NPD	76 / 7 / 7 NPD
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Wired patterned glass - EN 572-9:2004
Declaration of performances
Imagin wired O and wired S (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Imagin Wired O and Wired S**, intended to be used in buildings and construction works, following **EN 572-9:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Imagin wired clear characteristics in :	AVCP Systems	Wired O 6 mm	Wired S 6 mm	Wired S 7 mm
1.	Resistance to fire (EN 13501-2)	1	E30	E 30	E 30
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	89 / 8 / 8	89 / 8 / 8	88 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	80 / 7 / 7 83	80 / 7 / 7 83	79 / 7 / 7 NPD
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
19th of September 2018


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building

ipasol



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
ipasol bright neutral (annealed)



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ipasol bright neutral**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	ipasol bright neutral characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,89	NPD 0,89	NPD 0,89	NPD 0,89	NPD 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	64 / 34 / 34	63 / 34 / 33	63 / 34 / 33	62 / 34 / 32	62 / 34 / 32
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	68 / 27 / 25 NPD	66 / 27 / 25 NPD	64 / 27 / 24 NPD	63 / 26 / 23 NPD	61 / 27 / 22 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
26th of June 2017

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
ipasol bright white (annealed)



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ipasol bright white**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	ipasol bright white characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,89	NPD 0,89	NPD 0,89	NPD 0,89	NPD 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	65 / 35 / 34	65 / 35 / 34	64 / 35 / 34	64 / 35 / 34	64 / 35 / 34
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	70 / 27 / 27 NPD	70 / 27 / 26 NPD	69 / 27 / 26 NPD	68 / 27 / 26 NPD	68 / 27 / 25 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
ipasol light grey 60/33 (annealed)



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ipasol light grey 60/33**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	ipasol light grey 60/33 characteristics in :	AVCP Systems	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	66 / 4 / 6	65 / 4 / 6	65 / 4 / 6	64 / 4 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	34 / 41 / 32 NPD	34 / 41 / 29 NPD	33 / 41 / 28 NPD	33 / 41 / 26 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
26th of June 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
ipasol neutral 50/27 (annealed)



We

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 Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ipasol neutral 50/27**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	ipasol neutral 50/27 characteristics in :	AVCP Systems	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,02	NPD 0,02	NPD 0,02	NPD 0,02
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	55 / 4 / 6	54 / 4 / 6	54 / 4 / 6	53 / 3 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	27 / 40 / 25 NPD	27 / 40 / 23 NPD	27 / 40 / 22 NPD	26 / 40 / 20 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 26th of June 2017


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
ipasol neutral 70/37 (annealed)



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ipasol neutral 70/37**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	ipasol neutral 70/37 characteristics in :	AVCP Systems	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	77 / 8 / 8	76 / 8 / 7	76 / 8 / 7	75 / 8 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	39 / 45 / 34 NPD	38 / 45 / 32 NPD	38 / 45 / 29 NPD	37 / 45 / 28 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
26th of June 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
ipasol platin 25/17 (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ipasol platin 25/17**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	ipasol platin 25/17 characteristics in :	AVCP Systems	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,02	NPD 0,02	NPD 0,02	NPD 0,02
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	27 / 30 / 60	26 / 30 / 59	26 / 30 / 58	26 / 30 / 57
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	17 / 52 / 60 NPD	17 / 52 / 57 NPD	17 / 52 / 55 NPD	16 / 52 / 52 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
26th of June 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
ipasol platin 47/29 (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ipasol platin 47/29**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	ipasol platin 47/29 characteristics in :	AVCP Systems	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	51 / 26 / 38	50 / 26 / 38	50 / 26 / 37	50 / 26 / 36
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	30 / 50 / 46 NPD	29 / 50 / 43 NPD	29 / 50 / 41 NPD	28 / 50 / 40 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
26th of June 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
ipasol shine 40/22 (annealed)



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ipasol shine 40/22**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	ipasol shine 40/22 characteristics in :	AVCP Systems	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	44 / 5 / 15	44 / 5 / 15	44 / 5 / 14	43 / 5 / 14
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	22 / 44 / 27 NPD	21 / 44 / 26 NPD	21 / 44 / 24 NPD	21 / 44 / 23 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
26th of June 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
ipasol sky 30/17 (annealed)



We

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Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ipasol sky 30/17**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	ipasol sky 30/17 characteristics in :	AVCP Systems	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	33 / 4 / 17	33 / 4 / 17	32 / 4 / 17	32 / 4 / 17
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	16 / 45 / 23 NPD	15 / 45 / 22 NPD	15 / 45 / 21 NPD	15 / 45 / 20 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
26th of June 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
ipasol ultraselect 62/29 (annealed)



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ipasol ultraselect 62/29**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	ipasol ultraselect 62/29 characteristics in :	AVCP Systems	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	68 / 3 / 6	68 / 3 / 6	67 / 3 / 6	66 / 3 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	30 / 46 / 37 NPD	30 / 46 / 35 NPD	29 / 46 / 33 NPD	29 / 46 / 31 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
26th of June 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building

iplus



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus Advanced 1.0 (annealed)



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Advanced 1.0**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Advanced 1.0 characteristics in :	AVCP Sytems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	83 / 9 / 10	83 / 8 / 10	82 / 8 / 10	81 / 8 / 10	80 / 8 / 10	79 / 8 / 10
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	53 / 36 / 30 NPD	52 / 36 / 28 NPD	51 / 35 / 27 NPD	50 / 35 / 24 NPD	48 / 35 / 22 NPD	47 / 35 / 20 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
24th of April 2017

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus Advanced 1.0 on Clearlite (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Advanced 1.0 on Clearlite**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Advanced 1.0 on Clearlite characteristics in :	AVCP Sytems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	84 / 9 / 11	84 / 9 / 11	84 / 9 / 10	83 / 8 / 10	82 / 8 / 10	81 / 8 / 10
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	54 / 36 / 32 NPD	54 / 36 / 31 NPD	53 / 36 / 30 NPD	52 / 36 / 28 NPD	51 / 35 / 27 NPD	50 / 35 / 25 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
24th of April 2017

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus Advanced 1.0 on Clearvision (annealed)



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Advanced 1.0 on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Advanced 1.0 on Clearvision characteristics in :	AVCP Sytems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	85 / 9 / 11	85 / 9 / 11	85 / 9 / 11	85 / 9 / 11	85 / 9 / 11	85 / 9 / 11
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	56 / 36 / 36 NPD	56 / 36 / 35 NPD	56 / 36 / 35 NPD	56 / 36 / 34 NPD	55 / 36 / 33 NPD	55 / 36 / 33 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
24th of April 2017

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus Advanced 1.0T (annealed)



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Advanced 1.0T**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Advanced 1.0T characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
iplus Advanced 1.0T Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Advanced 1.0T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Advanced 1.0T Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	88 / 6 / 7	87 / 6 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	61 / 30 / 24 NPD	59 / 30 / 22 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
iplus Advanced 1.0T Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Advanced 1.0T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Advanced 1.0T Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	88 / 6 / 7	87 / 6 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	61 / 30 / 24 NPD	59 / 30 / 22 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
 8th of October 2015

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus Advanced 1.0T on Clearlite (annealed)



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Advanced 1.0T on Clearlite characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
iplus Advanced 1.0T on Clearlite Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Advanced 1.0T on Clearlite Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Advanced 1.0T on Clearlite Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	89 / 6 / 7	89 / 6 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	63 / 30 / 26 NPD	62 / 30 / 25 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
18th of April 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances



iplus Advanced 1.0T on Clearlite Thermally toughened or Heat soaked thermally toughened

We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Advanced 1.0T on Clearlite Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Advanced 1.0T on Clearlite Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	89 / 6 / 7	89 / 6 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	63 / 30 / 26 NPD	62 / 30 / 25 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
 18th of April 2016

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus AF (annealed)



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus AF characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,28	NPD 0,28
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	84 / 13 / 12	84 / 12 / 12
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	80 / 11 / 10 NPD	78 / 11 / 10 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
18th of April 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
iplus AF Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus AF Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus AF Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,28	NPD 0,28
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	84 / 13 / 12	84 / 12 / 12
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	80 / 11 / 10 NPD	78 / 11 / 10 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
18th of April 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
iplus AF Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus AF Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus AF Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,28	NPD 0,28
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	84 / 13 / 12	84 / 12 / 12
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	80 / 11 / 10 NPD	78 / 11 / 10 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
18th of April 2016

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus AF Energy N (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus AF Energy N**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus AF Energy N characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	76 / 10 / 11	75 / 10 / 11
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	41 / 43 / 33 NPD	40 / 42 / 31 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
18th of April 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus AF Top (annealed)



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus AF Top**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus AF Top characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	84 / 9 / 10	83 / 9 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	61 / 29 / 23 NPD	60 / 29 / 22 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
18th of April 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass – EN 1096-4:2004
Declaration of performances
iplus Energy N (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Energy N**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Energy N characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	81 / 7 / 7	80 / 7 / 7	79 / 7 / 7	78 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	43 / 41 / 32 NPD	42 / 41 / 29 NPD	41 / 41 / 26 NPD	40 / 41 / 23 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass – EN 1096-4:2004
Declaration of performances
iplus Energy N on Clearlite (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Energy N on Clearlite**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Energy N on Clearlite characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	81 / 7 / 7	80 / 7 / 7	80 / 7 / 7	79 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	43 / 41 / 35 NPD	43 / 41 / 32 NPD	42 / 41 / 30 NPD	41 / 41 / 28 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
18th of April 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass – EN 1096-4:2004
Declaration of performances
iplus Energy N on Clearvision (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Energy N on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Energy N on Clearvision characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	82 / 7 / 7	82 / 7 / 7	82 / 7 / 7	82 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	44 / 41 / 42 NPD	44 / 41 / 40 NPD	44 / 41 / 38 NPD	44 / 41 / 37 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus Energy NT (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Energy NT**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Energy NT characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673)	3	NPD	NPD	NPD	NPD
	- Normal emissivity ϵ_n coated side (EN 12898)	3	NPD	NPD	NPD	NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	3	NPD	NPD	NPD	NPD
	- Solar factor: g	3	NPD	NPD	NPD	NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
iplus Energy NT Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Energy NT Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Energy NT Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	81 / 7 / 7	80 / 7 / 7	79 / 7 / 7	78 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	44 / 40 / 33 NPD	43 / 40 / 29 NPD	42 / 40 / 26 NPD	41 / 40 / 24 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
iplus Energy NT Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Energy NT Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Energy NT Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	81 / 7 / 7	80 / 7 / 7	79 / 7 / 7	78 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	44 / 40 / 33 NPD	43 / 40 / 29 NPD	42 / 40 / 26 NPD	41 / 40 / 24 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus Energy NT on Clearlite (annealed)



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Energy NT on Clearlite characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673)	3	NPD	NPD	NPD	NPD
	- Normal emissivity ϵ_n coated side (EN 12898)	3	NPD	NPD	NPD	NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	3	NPD	NPD	NPD	NPD
	- Solar factor: g	3	NPD	NPD	NPD	NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
iplus Energy NT on Clearlite Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Energy NT on Clearlite Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Energy NT on Clearlite Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	81 / 7 / 7	80 / 7 / 7	80 / 7 / 7	79 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	45 / 40 / 36 NPD	44 / 40 / 33 NPD	43 / 40 / 31 NPD	43 / 40 / 29 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
18th of April 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
iplus Energy NT on Clearlite Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Energy NT on Clearlite Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Energy NT on Clearlite Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	81 / 7 / 7	80 / 7 / 7	80 / 7 / 7	79 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	45 / 40 / 36 NPD	44 / 40 / 33 NPD	43 / 40 / 31 NPD	43 / 40 / 29 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
18th of April 2016

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus I-Top (annealed)



We

AGC Glass Europe
Building Division

Avenue Jean Monnet 4 - 1348 Louvain-la-Neuve - Belgium
Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus I-Top**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus I-Top characteristics in :	AVCP Systems	3 mm	4 mm	5 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	29 (-2;-5)	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	88 / 6 / 7	87 / 6 / 7	86 / 6 / 7	86 / 5 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	59 / 29 / 24 NPD	58 / 29 / 22 NPD	57 / 29 / 21 NPD	56 / 28 / 19 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus I-Top on Clearlite (annealed)



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus I-Top on Clearlite**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus I-Top on Clearlite characteristics in :	AVCP Systems	3 mm	4 mm	5 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	29 (-2;-5)	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	88 / 6 / 7	88 / 6 / 7	88 / 6 / 7	87 / 6 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	62 / 29 / 27 NPD	61 / 29 / 27 NPD	60 / 29 / 26 NPD	60 / 29 / 25 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
13rd of June 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus I-Top on Clearvision (annealed)



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus I-Top on clearvision**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus I-Top on Clearvision characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	89 / 6 / 7	89 / 6 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	63 / 29 / 29 NPD	63 / 29 / 29 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus Light (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Light**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Light characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	72 / 19 / 21	71 / 19 / 21
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	44 / 43 / 34 NPD	42 / 43 / 30 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus Light on Clearlite (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Light on Clearlite**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Light on Clearlite characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	72 / 19 / 22	71 / 19 / 21
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	44 / 43 / 40 NPD	43 / 43 / 38 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
15th of June 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus LS (annealed)



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus LS**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus LS characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,08	NPD 0,08	NPD 0,08	NPD 0,08	NPD 0,08
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	90 / 6 / 6	90 / 6 / 6	89 / 6 / 6	89 / 6 / 6	88 / 6 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	73 / 18 / 16 NPD	73 / 18 / 16 NPD	72 / 18 / 15 NPD	71 / 18 / 15 NPD	69 / 17 / 14 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus Top 1.0 (annealed)



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Top 1.0**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Top 1.0 characteristics in :	AVCP Systems	3 mm	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	29 (-2;-5)	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	77 / 15 / 17	77 / 15 / 17	76 / 15 / 17	76 / 15 / 17	75 / 15 / 16
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	48 / 42 / 39 NPD	47 / 42 / 38 NPD	46 / 42 / 35 NPD	45 / 42 / 32 NPD	44 / 42 / 30 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus Top 1.0 on Clearlite (annealed)



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Top 1.0 on Clearlite**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Top 1.0 on Clearlite characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	77 / 15 / 17	77 / 15 / 17
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	47 / 42 / 39 NPD	47 / 42 / 36 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
15th of June 2017

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus Top 1.1 (annealed)



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Top 1.1**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Top 1.1 characteristics in :	AVCP Sytems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	89 / 5 / 6	88 / 5 / 6	88 / 5 / 6	87 / 5 / 6	85 / 5 / 6	84 / 5 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	63 / 27 / 21 NPD	62 / 26 / 20 NPD	61 / 26 / 19 NPD	59 / 26 / 17 NPD	57 / 26 / 16 NPD	55 / 26 / 15 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus Top 1.1 on Clearlite (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Top 1.1 on Clearlite**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Top 1.1 on Clearlite characteristics in :	AVCP Sytems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	90 / 5 / 6	90 / 5 / 6	89 / 5 / 6	88 / 5 / 6	88 / 5 / 6	87 / 5 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	65 / 27 / 23 NPD	65 / 27 / 22 NPD	64 / 27 / 22 NPD	62 / 26 / 20 NPD	61 / 26 / 19 NPD	60 / 26 / 18 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
18th of April 2016

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus Top 1.1 on Clearvision (annealed)



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Top 1.1 on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Top 1.1 on Clearvision characteristics in :	AVCP Sytems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	91 / 5 / 6	91 / 5 / 6	91 / 5 / 6	91 / 5 / 6	91 / 5 / 6	91 / 5 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	67 / 27 / 26 NPD	67 / 27 / 25 NPD	67 / 27 / 25 NPD	67 / 27 / 24 NPD	66 / 27 / 24 NPD	66 / 27 / 24 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus Top 1.1T (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Top 1.1T**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Top 1.1T characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673)	3	NPD	NPD	NPD	NPD	NPD	NPD
	- Normal emissivity ϵ_n coated side (EN 12898)		NPD	NPD	NPD	NPD	NPD	NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	3	NPD	NPD	NPD	NPD	NPD	NPD
	- Solar factor: g		NPD	NPD	NPD	NPD	NPD	NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
iplus Top 1.1T Heat strengthened



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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Top 1.1T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Top 1.1T Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	90 / 5 / 5	89 / 5 / 5	89 / 5 / 5	87 / 5 / 5	86 / 4 / 5
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	65 / 25 / 20 NPD	64 / 25 / 19 NPD	63 / 25 / 18 NPD	61 / 24 / 16 NPD	59 / 24 / 15 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
iplus Top 1.1T Thermally toughened or Heat soaked thermally toughened



We

AGC Glass Europe
Building Division

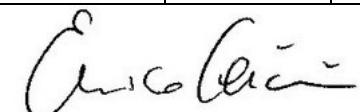
Avenue Jean Monnet 4 - 1348 Louvain-la-Neuve - Belgium
 Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Top 1.1T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Top 1.1T Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C3	1C2	1C2	1C1	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	90 / 5 / 5	89 / 5 / 5	89 / 5 / 5	87 / 5 / 5	86 / 4 / 5	85 / 4 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	65 / 25 / 20 NPD	64 / 25 / 19 NPD	63 / 25 / 18 NPD	61 / 24 / 16 NPD	59 / 24 / 15 NPD	57 / 24 / 14 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015

E. Ceriani 
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus Top 1.1T on Clearlite (annealed)



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Top 1.1T on Clearlite**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Top 1.1T on Clearlite characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673)	3	NPD	NPD	NPD	NPD	NPD	NPD
	- Normal emissivity ϵ_n coated side (EN 12898)	3	NPD	NPD	NPD	NPD	NPD	NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	3	NPD	NPD	NPD	NPD	NPD	NPD
	- Solar factor: g	3	NPD	NPD	NPD	NPD	NPD	NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
ipius Top 1.1T on Clearlite Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ipius Top 1.1T on Clearlite Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	ipius Top 1.1T on Clearlite Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	91 / 5 / 5	91 / 5 / 5	90 / 5 / 5	89 / 5 / 5	89 / 5 / 5
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	67 / 25 / 22 NPD	67 / 25 / 21 NPD	66 / 25 / 20 NPD	65 / 25 / 19 NPD	63 / 25 / 18 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
18th of April 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances



ipius Top 1.1T on Clearlite Thermally toughened or Heat soaked thermally toughened

We

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Building Division

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 Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ipius Top 1.1T on Clearlite Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	ipius Top 1.1T on Clearlite Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C3	1C2	1C2	1C1	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	91 / 5 / 5	91 / 5 / 5	90 / 5 / 5	89 / 5 / 5	89 / 5 / 5	88 / 5 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	67 / 25 / 22 NPD	67 / 25 / 21 NPD	66 / 25 / 20 NPD	65 / 25 / 19 NPD	63 / 25 / 18 NPD	62 / 25 / 17 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 18th of April 2016

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
iplus Top 1.1T on Clearvision (annealed)



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Top 1.1T on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Top 1.1T on Clearvision characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673)	3	NPD	NPD	NPD	NPD	NPD	NPD
	- Normal emissivity ϵ_n coated side (EN 12898)		NPD	NPD	NPD	NPD	NPD	NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	3	NPD	NPD	NPD	NPD	NPD	NPD
	- Solar factor: g		NPD	NPD	NPD	NPD	NPD	NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
iplus Top 1.1T on Clearvision Heat strengthened



We

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Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Top 1.1T on Clearvision Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Top 1.1T on Clearvision Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	92 / 5 / 5	92 / 5 / 5	92 / 5 / 5	92 / 5 / 5	92 / 5 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	70 / 25 / 24 NPD	70 / 25 / 24 NPD	69 / 25 / 23 NPD	69 / 25 / 23 NPD	69 / 25 / 22 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances



iplus Top 1.1T on Clearvision Thermally toughened or Heat soaked thermally toughened

We

AGC Glass Europe
Building Division

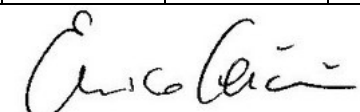
Avenue Jean Monnet 4 - 1348 Louvain-la-Neuve - Belgium
Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **iplus Top 1.1T on Clearvision Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	iplus Top 1.1T on Clearvision Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C3	1C2	1C2	1C1	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	92 / 5 / 5	92 / 5 / 5	92 / 5 / 5	92 / 5 / 5	92 / 5 / 5	91 / 5 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	70 / 25 / 24 NPD	70 / 25 / 24 NPD	69 / 25 / 23 NPD	69 / 25 / 23 NPD	69 / 25 / 22 NPD	68 / 25 / 22 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building

Lacobel T



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Lacobel T Heat strengthened



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Lacobel T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Lacobel T Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673)	3	NPD	NPD	NPD	NPD
	- Normal emissivity ϵ_n coated side (EN 12898)		NPD	NPD	NPD	NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	3	NPD	NPD	NPD	NPD
	- Solar factor: g		NPD	NPD	NPD	NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Lacobel T Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Lacobel T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Lacobel T Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building

Matelac T



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Matelac T Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Matelac T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Matelac T Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
17th of November 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Matelac T Thermally toughened or Heat soaked thermally toughened



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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Matelac T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Matelac T Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 17th of November 2016

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building

Mirox MNGE



CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2:2008
Declaration of performances
Mirox MNGE Clear



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Mirox MNGE Clear**, intended to be used in buildings and construction works, following **EN 1036-2:2008**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Mirox MNGE Clear characteristics in :	AVCP Systems	2 mm	3 mm	4 mm	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD	NPD	NPD
11.	U-value (EN 673)	3	5,8	5,8	5,8	5,8	5,7	5,7
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2:2008
Declaration of performances
Mirox MNGE Clearvision



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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Mirox MNGE Clearvision**, intended to be used in buildings and construction works, following **EN 1036-2:2008**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Mirox MNGE Clearvision characteristics in :	AVCP Systems	3 mm	4 mm	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD	NPD
11.	U-value (EN 673)	3	5,8	5,8	5,8	5,7	5,7
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2:2008
Declaration of performances
Mirox MNGE Black Mirox



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Mirox MNGE Black Mirox**, intended to be used in buildings and construction works, following **EN 1036-2:2008**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Mirox MNGE Black Mirox characteristics in :	AVCP Systems	4 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD
11.	U-value (EN 673)	3	5,8	5,8	5,7
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2:2008
Declaration of performances
Mirox MNGE Bronze



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Mirox MNGE Bronze**, intended to be used in buildings and construction works, following **EN 1036-2:2008**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Mirox MNGE Bronze characteristics in :	AVCP Systems	3 mm	4 mm	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD	NPD
11.	U-value (EN 673)	3	5,8	5,8	5,8	5,7	5,7
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2:2008
Declaration of performances
Mirox MNGE Green



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Mirox MNGE Green**, intended to be used in buildings and construction works, following **EN 1036-2:2008**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Mirox MNGE Green characteristics in :	AVCP Systems	3 mm	4 mm	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD	NPD
11.	U-value (EN 673)	3	5,8	5,8	5,8	5,7	5,7
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2:2008
Declaration of performances
Mirox MNGE Grey



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Mirox MNGE Grey**, intended to be used in buildings and construction works, following **EN 1036-2:2008**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Mirox MNGE Grey characteristics in :	AVCP Systems	3 mm	4 mm	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD	NPD
11.	U-value (EN 673)	3	5,8	5,8	5,8	5,7	5,7
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2:2008
Declaration of performances
Mirox MNGE PrivaBlue



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Mirox MNGE PrivaBlue**, intended to be used in buildings and construction works, following **EN 1036-2:2008**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Mirox MNGE PrivaBlue characteristics in :	AVCP Systems	3 mm	4 mm	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD	NPD
11.	U-value (EN 673)	3	5,8	5,8	5,8	5,7	5,7
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building

Planibel clear



CE Marking of Float glass - EN 572-9:2004
Declaration of performances
Planibel clear (annealed)



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel clear characteristics in :	AVCP Systems	2 mm	3 mm	4 mm	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	29 (-2;-5)	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673)	3	5,8	5,8	5,8	5,7	5,7	5,6
	- Normal emissivity ϵ_n coated side (EN 12898)		0,89	0,89	0,89	0,89	0,89	0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	91 / 8 / 8	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	88 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	3	88 / 8 / 8	86 / 8 / 8	84 / 8 / 8	83 / 7 / 7	81 / 7 / 7	78 / 7 / 7
	- Solar factor: g		89	88	86	85	84	82
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 8th of October 2015


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Float glass - EN 572-9:2004
Declaration of performances
Planibel clear (annealed)



We

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	Planibel clear characteristics in :	AVCP Systems	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,6 0,89	5,5 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	87 / 8 / 8	86 / 8 / 8
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	75 / 7 / 7 79	72 / 7 / 7 77
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Planibel clear Heat strengthened



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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Clear Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel clear Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ε_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	88 / 8 / 8	87 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	84 / 8 / 8 86	83 / 7 / 7 85	81 / 7 / 7 84	78 / 7 / 7 82	75 / 7 / 7 79
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel clear Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Clear Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel clear Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	1C3	1C3	1C2	1C2	1C1	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	29 (-2;-5)	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89	5,6 0,89	5,5 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	88 / 8 / 8	87 / 8 / 8	86 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	86 / 8 / 8 88	84 / 8 / 8 86	83 / 7 / 7 85	81 / 7 / 7 84	78 / 7 / 7 82	75 / 7 / 7 79	72 / 7 / 7 77
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 8th of October 2015

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Float glass - EN 572-9:2004
Declaration of performances
Planibel Clearlite (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Clearlite**, intended to be used in buildings and construction works, following **EN 572-9:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Clearlite characteristics in :	AVCP Systems	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	29 (-2;-5)	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89	5,6 0,89	5,5 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	91 / 8 / 8	90 / 8 / 8	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	88 / 8 / 8	87 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	88 / 8 / 8 89	87 / 8 / 8 88	86 / 8 / 8 87	85 / 8 / 8 86	82 / 7 / 7 85	80 / 7 / 7 83	79 / 7 / 7 82
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
18th of April 2016

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Planibel Clearlite Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Clearlite Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Clearlite Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	90 / 8 / 8	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	88 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	87 / 8 / 8 88	86 / 8 / 8 87	85 / 8 / 8 86	82 / 7 / 7 85	80 / 7 / 7 83
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
18th of April 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel Clearlite Thermally toughened or Heat soaked thermally toughened



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Clearlite Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	1C3	1C3	1C2	1C2	1C1	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	29 (-2;-5)	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89	5,6 0,89	5,5 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	91 / 8 / 8	90 / 8 / 8	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	88 / 8 / 8	87 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	88 / 8 / 8 89	87 / 8 / 8 88	86 / 8 / 8 87	85 / 8 / 8 86	82 / 7 / 7 85	80 / 7 / 7 83	79 / 7 / 7 82
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 18th of April 2016

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Float glass - EN 572-9:2004
Declaration of performances
Planibel Linea Azzurra (annealed)



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Linea Azzurra**, intended to be used in buildings and construction works, following **EN 572-9:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Linea Azzurra characteristics in :	AVCP Systems	8 mm	10 mm	12 mm	15 mm	19 mm	25 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,6 0,89	5,6 0,89	5,5 0,89	5,4 0,89	5,3 0,89	5,1 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	88 / 8 / 8	87 / 8 / 8	86 / 8 / 8	85 / 8 / 8	83 / 7 / 7	81 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	80 / 7 / 7 83	77 / 7 / 7 81	74 / 7 / 7 79	71 / 7 / 7 76	67 / 6 / 6 73	61 / 6 / 6 69
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
11th of December 2017

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Planibel Linea Azzurra Heat strengthened



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Linea Azzurra Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Linea Azzurra Heat strengthened characteristics in :	AVCP Systems	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,6 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	88 / 8 / 8	87 / 8 / 8
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	80 / 7 / 7 83	77 / 7 / 7 81
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
11th of December 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel Linea Azzurra Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Linea Azzurra Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Linea Azzurra Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	8 mm	10 mm	12 mm	15 mm	19 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C2	1C1	1C1	1C1	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,6 0,89	5,6 0,89	5,5 0,89	5,4 0,89	5,3 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	88 / 8 / 8	87 / 8 / 8	86 / 8 / 8	85 / 8 / 8	83 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	80 / 7 / 7 83	77 / 7 / 7 81	74 / 7 / 7 79	71 / 7 / 7 76	67 / 6 / 6 73
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 11th of December 2017


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Float glass - EN 572-9:2004
Declaration of performances
Planibel Clearvision, Sunmax, Sunmax Premium (annealed)



We

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Building Division

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 Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Clearvision, Sunmax, Sunmax Premium**, intended to be used in buildings and construction works, following **EN 572-9:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Clearvision, Sunmax, Sunmax Premium characteristics in :	AVCP Systems	2 mm	3 mm	4 mm	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	29 (-2;-5)	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673)	3	5,8	5,8	5,8	5,7	5,7	5,6
	- Normal emissivity ϵ_n coated side (EN 12898)	3	0,89	0,89	0,89	0,89	0,89	0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	92 / 8 / 8	92 / 8 / 8	92 / 8 / 8	92 / 8 / 8	92 / 8 / 8	92 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	3	91 / 8 / 8	91 / 8 / 8	91 / 8 / 8	90 / 8 / 8	90 / 8 / 8	90 / 8 / 8
	- Solar factor: g	3	91	91	91	91	91	90
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 13th of May 2016


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Float glass - EN 572-9:2004
Declaration of performances
Planibel Clearvision, Sunmax, Sunmax Premium (annealed)



We

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Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Clearvision, Sunmax, Sunmax Premium**, intended to be used in buildings and construction works, following **EN 572-9:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Clearvision, Sunmax, Sunmax Premium characteristics in :	AVCP Systems	10 mm	12 mm	15 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (-2;-3)	35 (-2;-3)	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,6 0,89	5,5 0,89	5,5 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	91 / 8 / 8	91 / 8 / 8	89 / 8 / 8
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	89 / 8 / 8 90	88 / 8 / 8 89	85 / 8 / 8 87
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
13th of May 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Planibel Clearvision, Sunmax, Sunmax Premium Heat strengthened



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Clearvision, Sunmax, Sunmax Premium, Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Clearvision, Sunmax, Sunmax Premium Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	92 / 8 / 8	92 / 8 / 8	92 / 8 / 8	92 / 8 / 8	91 / 8 / 8
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	91 / 8 / 8 91	90 / 8 / 8 91	90 / 8 / 8 91	90 / 8 / 8 90	89 / 8 / 8 90
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
13th of May 2016

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel Clearvision, Sunmax, Sunmax Premium Thermally toughened or Heat
soaked thermally toughened



We

AGC Glass Europe
Building Division

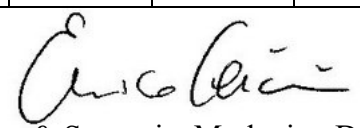
Avenue Jean Monnet 4 - 1348 Louvain-la-Neuve - Belgium
Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Clearvision, Sunmax, Sunmax Premium, Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Clearvision, Sunmax, Sunmax Premium Thermally toughened or Heat soaked thermally toughened characteristics in	AVCP Systems	3 mm	4 mm	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	1C3	1C3	1C2	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	29 (-2;-5)	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	92 / 8 / 8	92 / 8 / 8	92 / 8 / 8	92 / 8 / 8	92 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	91 / 8 / 8 91	91 / 8 / 8 91	90 / 8 / 8 91	90 / 8 / 8 91	90 / 8 / 8 90
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
13th of May 2016

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel Clearvision, Sunmax, Sunmax Premium Thermally toughened or Heat
soaked thermally toughened



We

AGC Glass Europe
Building Division

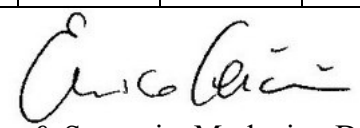
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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Clearvision, Sunmax, Sunmax Premium, Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Clearvision, Sunmax, Sunmax Premium Thermally toughened or Heat soaked thermally toughened characteristics in	AVCP Systems	10 mm	12 mm	15 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C1	1C1	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (-2;-3)	35 (-2;-3)	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,6 0,89	5,5 0,89	5,5 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	91 / 8 / 8	91 / 8 / 8	89 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	89 / 8 / 8 90	88 / 8 / 8 89	85 / 8 / 8 87
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
13th of May 2016

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Float glass - EN 572-9:2004
Declaration of performances
Planibel Clear Plus (annealed)



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Clear Plus** intended to be used in buildings and construction works, following **EN 572-9:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Clear Plus characteristics in :	AVCP Systems	4 mm
1.	Resistance to fire (EN 13501-2)	1	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1
3.	External fire performances	3, 4	NPD
4.	Bullet resistance (EN 1063)	1	NPD
5.	Explosion resistance (EN 13541)	1	NPD
6.	Burglar resistance (EN 356)	3	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	92 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	91 / 8 / 8 91
14.	Durability	3	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building

Planibel coloured



CE Marking of Float glass - EN 572-9:2004
Declaration of performances
Planibel Azur (annealed)



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Azur**, intended to be used in buildings and construction works, following **EN 572-9:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Azur characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	79 / 7 / 7	73 / 7 / 7	68 / 6 / 6	63 / 6 / 6
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	59 / 6 / 6 67	49 / 6 / 6 60	42 / 5 / 5 54	36 / 5 / 5 50
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Planibel Azur Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Azur Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Azur Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ε_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	79 / 7 / 7	73 / 7 / 7	68 / 6 / 6	63 / 6 / 6
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	59 / 6 / 6 67	49 / 6 / 6 60	42 / 5 / 5 54	36 / 5 / 5 50
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel Azur Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Azur Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Azur Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	79 / 7 / 7	73 / 7 / 7	68 / 6 / 6	63 / 6 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	59 / 6 / 6 67	49 / 6 / 6 60	42 / 5 / 5 54	36 / 5 / 5 50
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Float glass - EN 572-9:2004
Declaration of performances
Planibel Bronze (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Bronze**, intended to be used in buildings and construction works, following **EN 572-9:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Bronze characteristics in :	AVCP Systems	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	29 (-2;-5)	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	68 / 6 / 6	62 / 6 / 6	56 / 6 / 6	51 / 6 / 6	41 / 5 / 5	34 / 5 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	67 / 6 / 6 74	61 / 6 / 6 69	56 / 6 / 6 65	50 / 5 / 5 61	42 / 5 / 5 54	34 / 5 / 5 49
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Planibel Bronze Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Bronze Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Bronze Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	62 / 6 / 6	56 / 6 / 6	51 / 6 / 6	41 / 5 / 5	34 / 5 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	61 / 6 / 6 69	56 / 6 / 6 65	50 / 5 / 5 61	42 / 5 / 5 54	34 / 5 / 5 49
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel Bronze Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Bronze Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Bronze Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	1C3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	29 (-2;-5)	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673)	3	5,8	5,8	5,8	5,7	5,7	5,6
	- Normal emissivity ϵ_n coated side (EN 12898)		0,89	0,89	0,89	0,89	0,89	0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	68 / 6 / 6	62 / 6 / 6	56 / 6 / 6	51 / 6 / 6	41 / 5 / 5	34 / 5 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	3	67 / 6 / 6	61 / 6 / 6	56 / 6 / 6	50 / 5 / 5	42 / 5 / 5	34 / 5 / 5
	- Solar factor: g		74	69	65	61	54	49
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Float glass - EN 572-9:2004
Declaration of performances
Planibel Dark Blue (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Dark Blue**, intended to be used in buildings and construction works, following **EN 572-9:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Dark Blue characteristics in :	AVCP Systems	4 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	68 / 6 / 6	58 / 6 / 6	50 / 5 / 5
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	52 / 6 / 6 62	41 / 5 / 5 53	33 / 5 / 5 47
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Planibel Dark Blue Heat strengthened



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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Dark Blue Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Dark Blue Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	68 / 6 / 6	57 / 6 / 6	50 / 5 / 5
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	52 / 6 / 6 62	41 / 5 / 5 53	33 / 5 / 5 47
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel Dark Blue Thermally toughened or Heat soaked thermally toughened



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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Dark Blue Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Dark Blue Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C2	1C2	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	68 / 6 / 6	57 / 6 / 6	50 / 5 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	52 / 6 / 6 62	41 / 5 / 5 53	33 / 5 / 5 47
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Float glass - EN 572-9:2004
Declaration of performances
Planibel Dark Grey (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Dark Grey**, intended to be used in buildings and construction works, following **EN 572-9:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Dark Grey characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	18 / 4 / 4	8 / 4 / 4	4 / 4 / 4	2 / 4 / 4
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	18 / 4 / 4 36	8 / 4 / 4 29	4 / 4 / 4 25	2 / 4 / 4 24
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Planibel Dark Grey Heat strengthened



We

AGC Glass Europe
Building Division

Avenue Jean Monnet 4 - 1348 Louvain-la-Neuve - Belgium
Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Dark Grey Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Dark Grey Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	18 / 4 / 4	8 / 4 / 4	4 / 4 / 4	2 / 4 / 4
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	18 / 4 / 4 36	8 / 4 / 4 29	4 / 4 / 4 25	2 / 4 / 4 24
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel Dark Grey Thermally toughened or Heat soaked thermally toughened



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Dark Grey Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Dark Grey Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	18 / 4 / 4	8 / 4 / 4	4 / 4 / 4	2 / 4 / 4
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	18 / 4 / 4 36	8 / 4 / 4 29	4 / 4 / 4 25	2 / 4 / 4 24
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Float glass - EN 572-9:2004
Declaration of performances
Planibel Green (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Green**, intended to be used in buildings and construction works, following **EN 572-9:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Green characteristics in :	AVCP Systems	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	29 (-2;-5)	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	82 / 7 / 7	79 / 7 / 7	76 / 7 / 7	73 / 7 / 7	68 / 6 / 6	63 / 6 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	61 / 6 / 6 69	55 / 6 / 6 64	49 / 6 / 6 60	44 / 5 / 5 56	37 / 5 / 5 51	31 / 5 / 5 46
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
12th of May 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Planibel Green Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Green Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Green Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	79 / 7 / 7	76 / 7 / 7	73 / 7 / 7	68 / 6 / 6	63 / 6 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	55 / 6 / 6 64	49 / 6 / 6 60	44 / 5 / 5 56	37 / 5 / 5 51	31 / 5 / 5 46
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
12th of May 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel Green Thermally toughened or Heat soaked thermally toughened



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Green Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	1C3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	29 (-2;-5)	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	82 / 7 / 7	79 / 7 / 7	76 / 7 / 7	73 / 7 / 7	68 / 6 / 6	63 / 6 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	61 / 6 / 6 69	55 / 6 / 6 64	49 / 6 / 6 60	44 / 5 / 5 56	37 / 5 / 5 51	31 / 5 / 5 46
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 12th of May 2017

E. Ceriani 
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Float glass - EN 572-9:2004
Declaration of performances
Planibel Grey (annealed)



We

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Building Division

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Grey characteristics in :	AVCP Systems	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	29 (-2;-5)	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	63 / 6 / 6	57 / 6 / 6	50 / 5 / 5	44 / 5 / 5	34 / 5 / 5	27 / 5 / 5	21 / 5 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	64 / 6 / 6 72	58 / 6 / 6 67	52 / 6 / 6 62	46 / 5 / 5 58	37 / 5 / 5 51	30 / 5 / 5 45	24 / 4 / 4 41
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Planibel Grey Heat strengthened



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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Grey Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Grey Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	57 / 6 / 6	50 / 5 / 5	44 / 5 / 5	34 / 5 / 5	27 / 5 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	58 / 6 / 6 67	52 / 6 / 6 62	46 / 5 / 5 58	37 / 5 / 5 51	30 / 5 / 5 45
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel Grey Thermally toughened or Heat soaked thermally toughened



We

AGC Glass Europe
Building Division

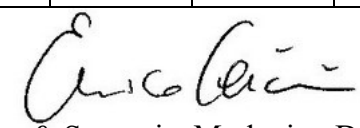
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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Grey Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	1C3	1C3	1C2	1C2	1C1	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	29 (-2;-5)	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ε_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	63 / 6 / 6	57 / 6 / 6	50 / 5 / 5	44 / 5 / 5	34 / 5 / 5	27 / 5 / 5	21 / 5 / 5
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	64 / 6 / 6 72	58 / 6 / 6 67	52 / 6 / 6 62	46 / 5 / 5 58	37 / 5 / 5 51	30 / 5 / 5 45	24 / 4 / 4 41
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Float glass - EN 572-9:2004
Declaration of performances
Planibel PrivaBlue (annealed)



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel PrivaBlue**, intended to be used in buildings and construction works, following **EN 572-9:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel PrivaBlue characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	48 / 5 / 5	35 / 5 / 5	25 / 5 / 5	18 / 4 / 4
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	31 / 5 / 5 46	20 / 4 / 4 38	14 / 4 / 4 33	10 / 4 / 4 30
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Planibel PrivaBlue Heat strengthened



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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel PrivaBlue Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel PrivaBlue Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	48 / 5 / 5	35 / 5 / 5	25 / 5 / 5	18 / 4 / 4
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	31 / 5 / 5 46	20 / 4 / 4 38	14 / 4 / 4 33	10 / 4 / 4 30
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel PrivaBlue Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel PrivaBlue Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel PrivaBlue Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	48 / 5 / 5	35 / 5 / 5	25 / 5 / 5	18 / 4 / 4
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	31 / 5 / 5 46	20 / 4 / 4 38	14 / 4 / 4 33	10 / 4 / 4 30
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building

Planibel low-e



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Planibel A (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel A**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel A characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,10	NPD 0,10
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	80 / 11 / 10	79 / 11 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	68 / 12 / 11 NPD	65 / 11 / 10 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Planibel A Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel A Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel A Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	80 / 11 / 10	79 / 11 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	68 / 12 / 11 NPD	65 / 11 / 10 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel A Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel A Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel A Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	80 / 11 / 10	79 / 11 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	68 / 12 / 11 NPD	65 / 11 / 10 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Planibel AS (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel AS**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel AS characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,05	NPD 0,05
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	91 / 5 / 6	91 / 5 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	74 / 18 / 18 NPD	73 / 18 / 18 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
17th of November 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Planibel AS Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel AS Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel AS Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,05	NPD 0,05
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	91 / 5 / 6	91 / 5 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	74 / 18 / 18 NPD	73 / 18 / 18 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
17th of November 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel AS Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel AS Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel AS Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,05	NPD 0,05
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	91 / 5 / 6	91 / 5 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	74 / 18 / 18 NPD	73 / 18 / 18 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
17th of November 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Planibel G (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel G**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel G characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,14	NPD 0,14
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	83 / 11 / 10	82 / 11 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	74 / 11 / 10 NPD	72 / 11 / 10 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
18th of April 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Planibel G Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel G Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel G Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	83 / 11 / 10	82 / 11 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	74 / 11 / 10 NPD	72 / 11 / 10 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
18th of April 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel G Thermally toughened or Heat soaked thermally toughened



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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel G Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel G Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	83 / 11 / 10	82 / 11 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	74 / 11 / 10 NPD	72 / 11 / 10 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
 18th of April 2016


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Planibel G fasT (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel G fasT**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel G fasT characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,14	NPD 0,14
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	83 / 11 / 10	82 / 11 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	74 / 11 / 11 NPD	72 / 11 / 10 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
18th of April 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Planibel G fasT Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel G fasT Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel G fasT Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	83 / 11 / 10	82 / 11 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	74 / 11 / 11 NPD	72 / 11 / 10 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
18th of April 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel G fasT Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel G fasT Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel G fasT Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	83 / 11 / 10	82 / 11 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	74 / 11 / 11 NPD	72 / 11 / 10 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
18th of April 2016

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Planibel Hortiplus N (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Hortiplus N**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Hortiplus N characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,15	NPD 0,15
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	83 / 11 / 10	82 / 11 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	74 / 11 / 10 NPD	72 / 11 / 10 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
18th of April 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Planibel Hortiplus N Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Hortiplus N Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Hortiplus N Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	83 / 11 / 10	82 / 11 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	74 / 11 / 10 NPD	72 / 11 / 10 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
18th of April 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel Hortiplus N Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Hortiplus N Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Hortiplus N Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	83 / 11 / 10	82 / 11 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	74 / 11 / 10 NPD	72 / 11 / 10 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
18th of April 2016

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
AF iplus E (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **AF iplus E**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	AF iplus E characteristics in :	AVCP Systems	4 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	83 / 9 / 10	82 / 9 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	59 / 29 / 22 NPD	57 / 29 / 21 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Planibel Top N+ (annealed)



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Top N+ characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	87 / 6 / 8	86 / 6 / 8	86 / 6 / 7	85 / 6 / 7	84 / 6 / 7	83 / 6 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	59 / 29 / 25 NPD	58 / 29 / 24 NPD	57 / 29 / 23 NPD	56 / 29 / 21 NPD	54 / 29 / 19 NPD	52 / 29 / 17 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Planibel Top N+T (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Top N+T**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Top N+T characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673)	3	NPD	NPD	NPD	NPD
	- Normal emissivity ϵ_n coated side (EN 12898)		NPD	NPD	NPD	NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	3	NPD	NPD	NPD	NPD
	- Solar factor: g		NPD	NPD	NPD	NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
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CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Planibel Top N+T Heat strengthened



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Top N+T Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	88 / 8 / 6	87 / 8 / 6	86 / 8 / 6	85 / 8 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	65 / 25 / 22 NPD	63 / 25 / 20 NPD	61 / 25 / 19 NPD	59 / 25 / 17 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Planibel Top N+T Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Top N+T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Planibel Top N+T Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	88 / 8 / 6	87 / 8 / 6	86 / 8 / 6	85 / 8 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	65 / 25 / 22 NPD	63 / 25 / 20 NPD	61 / 25 / 19 NPD	59 / 25 / 17 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building

Polished Wired Safety Glass



CE Marking of Polished wired glass - EN 572-9:2004
Declaration of performances
Polished Wired Safety Glass



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Polished Wired Safety Glass**, intended to be used in buildings and construction works, following **EN 572-9:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Polished Wired Safety Glass characteristics in :	AVCP Systems	7 mm
1.	Resistance to fire (EN 13501-2)	1	E30
2.	Reaction to fire (EN 13501-1)	3, 4	A1
3.	External fire performances	3, 4	NPD
4.	Bullet resistance (EN 1063)	1	NPD
5.	Explosion resistance (EN 13541)	1	NPD
6.	Burglar resistance (EN 356)	3	NPD
7.	Pendulum body impact resistance (EN 12600)	3	3B3
8.	Resistance against sudden temperature change and temperature differentials	4	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	80 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	70 / 7 / 7 NDP
14.	Durability	3	PASS

Louvain-la-Neuve
27th of October 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building

Pyrobelite / Pyrobel / Pyrobel-T



CE Marking of Pyrobelite – EN 14449:2005 + AC:2005
Declaration of performances
Pyrobelite



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Pyrobelite**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Pyrobelite characteristics in :	AVCP Systems	Pyrobelite 7	Pyrobelite 9 EG	Pyrobelite 10
1.	Resistance to fire (EN 13501-2)	1	EW30	EI20 / EW30	EW30
2.	Reaction to fire (EN 13501-1)	3, 4	A2 – s1, d0	NPD	A2 – s1, d0
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P2A	NPD
7.	Pendulum body impact resistance (EN 12600)	3	3B3	1B1	2B2
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (0;-3)	37 (-1;-2)	37 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,6 NPD	5,5 NPD	5,5 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	88 / 8 / 8	86 / 8 / 8	87 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	74 / 7 / 7 79	63 / 6 / 6 70	70 / 7 / 7 76
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
24th of October 2017


E. Ceriani
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CE Marking of Pyrobelite – EN 14449:2005 + AC:2005
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	Pyrobelite characteristics in :	AVCP Systems	Pyrobelite 12	Pyrobelite 12 EG	Pyrobelite 13
1.	Resistance to fire (EN 13501-2)	1	EI20 / EW60	EI20 / EW60	EW30
2.	Reaction to fire (EN 13501-1)	3, 4	A2 – s1, d0	NPD	A2 – s1, d0
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P2A	NPD
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	2B2
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	36 (-1;-3)	38 (-1;-3)	37 (-1;-2)
11.	- U-value (EN 673)	3	5,5	5,4	5,5
	- Normal emissivity ϵ_n coated side (EN 12898)		NPD	NPD	NPD
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	87 / 8 / 8	86 / 8 / 8	86 / 8 / 8
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e	3	69 / 7 / 7	63 / 6 / 6	68 / 7 / 7
	- Solar factor: g		75	70	74
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
 24th of October 2017


 E. Ceriani
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CE Marking of Pyrobel – EN 14449:2005 + AC:2005
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	Pyrobel characteristics in :	AVCP Systems	Pyrobel 8	Pyrobel 8 EG	Pyrobel 16
1.	Resistance to fire (EN 13501-2)	1	EI15 / EW30	EI15 / EW30	EI30 / EW60
2.	Reaction to fire (EN 13501-1)	3, 4	A2 – s1, d0	NPD	A2 – s1, d0
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	1B1	2B2
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (-1;-3)	36 (-1;-3)	39 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,6 NPD	5,5 NPD	5,3 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	88 / 8 / 8	87 / 8 / 8	85 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	72 / 7 / 7 77	66 / 7 / 7 72	64 / 6 / 6 71
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
 13th of May 2016


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Pyrobel – EN 14449:2005 + AC:2005
Declaration of performances
Pyrobel



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	Pyrobel characteristics in :	AVCP Systems	Pyrobel 16 EG	Pyrobel 17N	Pyrobel 17N EG
1.	Resistance to fire (EN 13501-2)	1	EI30 / EW60	EI45 / EW60	EI45 / EW60
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	A2 – s1, d0	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P2A	P1A	P2A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	39 (-1;-3)	39 (0;-3)	40 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,3 NPD	5,4 NPD	5,2 NPD
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	84 / 8 / 8	86 / 8 / 8	85 / 8 / 8
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	60 / 6 / 6 68	65 / 6 / 6 71	60 / 6 / 6 68
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
 24th of October 2017


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	Pyrobel characteristics in :	AVCP Systems	Pyrobel 21	Pyrobel 21 EG
1.	Resistance to fire (EN 13501-2)	1	EI45 / EW60	EI45 / EW60
2.	Reaction to fire (EN 13501-1)	3, 4	A2 – s1, d0	NPD
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	P1A	P2A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	38 (0;-3)	40 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,2 NPD	5,1 NPD
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	80 / 7 / 7	79 / 7 / 7
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	56 / 6 / 6 65	51 / 6 / 6 61
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
24th of October 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



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	Pyrobel characteristics in :	AVCP Systems	Pyrobel 25	Pyrobel 25 EG	Pyrobel 30
1.	Resistance to fire (EN 13501-2)	1	EI60	EI60	EI90
2.	Reaction to fire (EN 13501-1)	3, 4	A2 – s1, d0	NPD	A2 – s1, d0
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P1A	P2A	P1A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	40 (-1;-3)	43 (-1;-4)	42 (-1;-4)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,1 NPD	5,0 NPD	5,0 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	82 / 7 / 7	82 / 7 / 7	81 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	57 / 6 / 6 66	54 / 6 / 6 64	56 / 6 / 6 65
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
24th of October 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



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	Pyrobel characteristics in :	AVCP Systems	Pyrobel 30 EG	Pyrobel 30 EG2	Pyrobel 35	Pyrobel 35 EG
1.	Resistance to fire (EN 13501-2)	1	EI90	EI90	EI90	EI90
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P2A	P2A	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	43 (-1;-4)	NPD	41 (-1;-4)	42 (-1;-4)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,8 NPD	4,8 NPD	4,9 NPD	4,7 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	80 / 7 / 7	80 / 7 / 7	79 / 7 / 7	77 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	52 / 6 / 6 62	50 / 6 / 6 61	49 / 6 / 6 59	46 / 6 / 6 57
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
24th of October 2017


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	Pyrobel characteristics in :	AVCP Systems	Pyrobel 53N	Pyrobel 53N EG
1.	Resistance to fire (EN 13501-2)	1	EI120	EI120
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	48 (-2;-7)	49 (-1;-6)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,5 NPD	4,4 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	75 / 7 / 7	73 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	43 / 5 / 5 55	40 / 5 / 5 53
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
29th of April 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Pyrobel – EN 14449:2005 + AC:2005
Declaration of performances
Pyrobel



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	Pyrobel characteristics in :	AVCP Systems	Pyrobel 19H	Pyrobel 23H	Pyrobel 28H
1.	Resistance to fire (EN 13501-2)	1	EI30	EI45	EI60
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	38 (-1;-3)	39 (0;-3)	41 (0;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,2 NPD	5,1 NPD	5,0 NPD
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	85 / 8 / 8	83 / 8 / 8	78 / 7 / 7
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	61 / 6 / 6 68	57 / 6 / 6 66	50 / 6 / 6 60
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
29th of April 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Pyrobel – EN 14449:2005 + AC:2005
Declaration of performances
Pyrobel-T



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	Pyrobel-T characteristics in :	AVCP Systems	Pyrobel-T EW30-16	Pyrobel-T EW60-16	Pyrobel-T EW90-16	Pyrobel-T EW120-16
1.	Resistance to fire (EN 13501-2)	1	EW30	EW60	EW90	EW120
2.	Reaction to fire (EN 13501-1)	3, 4	A2-s1, d0	A2-s1, d0	A2-s1, d0	A2-s1, d0
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	37 (-1;-2)	37 (-1;-2)	37 (-1;-2)	37 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,4 NPD	5,4 NPD	5,4 NPD	5,4 NPD
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	87 / 8 / 8	87 / 8 / 8	87 / 8 / 8	87 / 8 / 8
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	69 / 7 / 7 74	69 / 7 / 7 74	69 / 7 / 7 74	69 / 7 / 7 74
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
2nd of February 2017

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Pyrobel – EN 14449:2005 + AC:2005
Declaration of performances
Pyrobel-T



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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Pyrobel-T**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Pyrobel-T characteristics in :	AVCP Systems	Pyrobel-T EW30-20	Pyrobel-T EW60-20	Pyrobel-T EW90-20	Pyrobel-T EW120-20
1.	Resistance to fire (EN 13501-2)	1	EW30	EW60	EW90	EW120
2.	Reaction to fire (EN 13501-1)	3, 4	A2-s1, d0	A2-s1, d0	A2-s1, d0	A2-s1, d0
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	37 (-1;-3)	37 (-1;-3)	37 (-1;-3)	37 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,3 NPD	5,3 NPD	5,3 NPD	5,3 NPD
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	86 / 8 / 8	86 / 8 / 8	86 / 8 / 8	86 / 8 / 8
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	65 / 7 / 7 72	65 / 7 / 7 72	65 / 7 / 7 72	65 / 7 / 7 72
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
2nd of February 2017

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building

Pyropane



CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Pyropane 100 – Pyropane 110



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Pyropane**, intended to be used in buildings and construction works, following **EN 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Pyropane characteristics in :	AVCP Systems	Pyropane 100	Pyropane 110
1.	Resistance to fire (EN 13501-2)	1	E30	E30
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C1	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	89 / 8 / 8	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	81 / 7 / 7 NPD	NPD NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Static Smoke Barrier - EN 12101-1
Declaration of performances
Pyropane 100 SB 30



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the static smoke barrier product named **Pyropane**, intended to be used in buildings and construction works, following **EN 12101-1**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Pyropane characteristics in :	AVCP Systems	Pyropane 100 SB30
1.	Resistance to fire classification	1	DH 30
2.	Response delay	4	NPD
3.	Openings, gaps and perimeter spaces :	4	
	Gap head		10 mm
	Gap edge		11 mm
	Gap joint		6 mm
	Area head		NPD
	Area edge		NPD
	Area joint		NPD
4.	Maximum barrier permeability	4	NPD

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Insulating glass unit – EN 1279-5:2005 + A2:2010
Declaration of performances
Pyropane 151-70 ; 151-70/100 ; 152-70 ; 201 ; 201/100 ; 202



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Pyropane**, intended to be used in buildings and construction works, following **EN 1279-5:2005 + A2:2010**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Pyropane characteristics in :	AVCP Systems	Pyropane 151-70 Pyropane 151-70/100 Pyropane 152-70	Pyropane 201 Pyropane 201/100 Pyropane 202
1.	Resistance to fire (EN 13501-2)	1	E30 – EW30	E30 – EW30
2.	Reaction to fire (EN 13501-1)	3, 4	For 12 characteristics, see www.YourGlass.com/ce	For 12 characteristics, see www.YourGlass.com/ce
3.	External fire performances	3, 4		
4.	Bullet resistance (EN 1063)	1		
5.	Explosion resistance (EN 13541)	1		
6.	Burglar resistance (EN 356)	3		
7.	Pendulum body impact resistance (EN 12600)	3		
8.	Resistance against sudden temperature change and temperature differentials	4		
9.	Wind, snow, permanent and imposed load resistance	4		
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3		
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3		
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3		
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3		
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Insulating glass unit – EN 1279-5:2005 + A2:2010
Declaration of performances
Pyropane 211-44



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Pyropane**, intended to be used in buildings and construction works, following **EN 1279-5:2005 + A2:2010**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Pyropane characteristics in :	AVCP Systems	Pyropane 211-44
1.	Resistance to fire (EN 13501-2)	1	E30/60 – EW30/60
2.	Reaction to fire (EN 13501-1)	3, 4	For 12 characteristics, see www.YourGlass.com/ce
3.	External fire performances	3, 4	
4.	Bullet resistance (EN 1063)	1	
5.	Explosion resistance (EN 13541)	1	
6.	Burglar resistance (EN 356)	3	
7.	Pendulum body impact resistance (EN 12600)	3	
8.	Resistance against sudden temperature change and temperature differentials	4	
9.	Wind, snow, permanent and imposed load resistance	4	
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	
14.	Durability	3	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Insulating glass unit – EN 1279-5:2005 + A2:2010
Declaration of performances
Pyropane 231-28



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Pyropane**, intended to be used in buildings and construction works, following **EN 1279-5:2005 + A2:2010**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Pyropane characteristics in :	AVCP Systems	Pyropane 231-28
1.	Resistance to fire (EN 13501-2)	1	E30/60 – EW30/60
2.	Reaction to fire (EN 13501-1)	3, 4	For 12 characteristics, see www.YourGlass.com/ce
3.	External fire performances	3, 4	
4.	Bullet resistance (EN 1063)	1	
5.	Explosion resistance (EN 13541)	1	
6.	Burglar resistance (EN 356)	3	
7.	Pendulum body impact resistance (EN 12600)	3	
8.	Resistance against sudden temperature change and temperature differentials	4	
9.	Wind, snow, permanent and imposed load resistance	4	
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	
14.	Durability	3	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Insulating glass unit – EN 1279-5:2005 + A2:2010
Declaration of performances
Pyropane 221-37



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Pyropane**, intended to be used in buildings and construction works, following **EN 1279-5:2005 + A2:2010**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Pyropane characteristics in :	AVCP Systems	Pyropane 221 - 37
1.	Resistance to fire (EN 13501-2)	1	E30 – EW30
2.	Reaction to fire (EN 13501-1)	3, 4	For 12 characteristics, see www.YourGlass.com/ce
3.	External fire performances	3, 4	
4.	Bullet resistance (EN 1063)	1	
5.	Explosion resistance (EN 13541)	1	
6.	Burglar resistance (EN 356)	3	
7.	Pendulum body impact resistance (EN 12600)	3	
8.	Resistance against sudden temperature change and temperature differentials	4	
9.	Wind, snow, permanent and imposed load resistance	4	
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	
14.	Durability	3	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Insulating glass unit – EN 1279-5:2005 + A2:2010
Declaration of performances
Pyropane 241-60 – Pyropane 204



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Pyropane**, intended to be used in buildings and construction works, following **EN 1279-5:2005 + A2:2010**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Pyropane characteristics in :	AVCP Systems	Pyropane 241-60	Pyropane 204
1.	Resistance to fire (EN 13501-2)	1	E30 – EW30	E30 – EW30
2.	Reaction to fire (EN 13501-1)	3, 4	For 12 characteristics, see www.YourGlass.com/ce	For 12 characteristics, see www.YourGlass.com/ce
3.	External fire performances	3, 4		
4.	Bullet resistance (EN 1063)	1		
5.	Explosion resistance (EN 13541)	1		
6.	Burglar resistance (EN 356)	3		
7.	Pendulum body impact resistance (EN 12600)	3		
8.	Resistance against sudden temperature change and temperature differentials	4		
9.	Wind, snow, permanent and imposed load resistance	4		
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3		
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3		
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3		
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3		
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building

Stopray



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Indigo 48T (annealed)



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Indigo 48T**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Indigo 48T characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopray Indigo 48T Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Indigo 48T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Indigo 48T Heat strengthened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	53 / 5 / 6	46 / 5 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	28 / 38 / 8 NPD	23 / 38 / 6 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopray Indigo 48T Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Indigo 48T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Indigo 48T Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C2	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	53 / 5 / 6	46 / 5 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	28 / 38 / 8	23 / 38 / 6
14.	Durability	3		

Louvain-la-Neuve
23rd of February 2015

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Lime 61T (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Lime 61T**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Lime 61T characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	NPD	NPD
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopray Lime 61T Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Lime 61T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Lime 61T Heat strengthened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	68 / 6 / 6	63 / 6 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	34 / 38 / 9 NPD	30 / 38 / 7 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopray Lime 61T Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Lime 61T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Lime 61T Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C2	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	68 / 6 / 6	63 / 6 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	34 / 38 / 9 NPD	30 / 38 / 7 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray SilverFlex (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray SilverFlex**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray SilverFlex characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	47 / 45 / 47	47 / 45 / 46	47 / 45 / 46	46 / 45 / 45	46 / 45 / 45	45 / 45 / 44
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	28 / 60 / 55 NPD	28 / 60 / 53 NPD	28 / 60 / 52 NPD	27 / 60 / 49 NPD	27 / 60 / 47 NPD	26 / 60 / 45 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 4th of May 2017

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopray SilverFlex Heat strengthened



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray SilverFlex Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	47 / 45 / 47	47 / 45 / 46	47 / 45 / 46	46 / 45 / 45	46 / 45 / 45	45 / 45 / 44
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	28 / 60 / 55 NPD	28 / 60 / 53 NPD	28 / 60 / 52 NPD	27 / 60 / 49 NPD	27 / 60 / 47 NPD	26 / 60 / 45 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
4th of May 2017

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopray SilverFlex Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray SilverFlex Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray SilverFlex Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C3	1C2	1C2	1C1	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	47 / 45 / 47	47 / 45 / 46	47 / 45 / 46	46 / 45 / 45	46 / 45 / 45	45 / 45 / 44
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	28 / 60 / 55 NPD	28 / 60 / 53 NPD	28 / 60 / 52 NPD	27 / 60 / 49 NPD	27 / 60 / 47 NPD	26 / 60 / 45 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
4th of May 2017

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Smart 30/20 (annealed)



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Smart 30/20 characteristics in :	AVCP Systems	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	33 / 9 / 28	33 / 9 / 27	32 / 9 / 27
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	21 / 31 / 35 NPD	20 / 31 / 33 NPD	19 / 31 / 31 NPD
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
11th of December 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopray Smart 30/20 Heat strengthened



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Smart 30/20 Heat strengthened characteristics in :	AVCP Systems	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	33 / 9 / 28	33 / 9 / 27	32 / 9 / 27
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	21 / 31 / 35 NPD	20 / 31 / 33 NPD	19 / 31 / 31 NPD
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
11th of December 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopray Smart 30/20 Thermally toughened or Heat soaked thermally toughened



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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Smart 30/20 Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	33 / 9 / 28	33 / 9 / 27	32 / 9 / 27
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	21 / 31 / 35 NPD	20 / 31 / 33 NPD	19 / 31 / 31 NPD
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
 11th of December 2017

E. Ceriani 
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Smart 51/33 (annealed)



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Smart 51/33 characteristics in :	AVCP Systems	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	56 / 12 / 23	56 / 11 / 23	55 / 11 / 22
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	35 / 37 / 35 NPD	34 / 37 / 33 NPD	33 / 37 / 31 NPD
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
11th of December 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopray Smart 51/33 Heat strengthened



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Smart 51/33 Heat strengthened characteristics in :	AVCP Systems	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	56 / 12 / 23	56 / 11 / 23	55 / 11 / 22
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	35 / 37 / 35 NPD	34 / 37 / 33 NPD	33 / 37 / 31 NPD
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
11th of December 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopray Smart 51/33 Thermally toughened or Heat soaked thermally toughened



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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Smart 51/33 Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Smart 51/33 Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	56 / 12 / 23	56 / 11 / 23	55 / 11 / 22
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	35 / 37 / 35 NPD	34 / 37 / 33 NPD	33 / 37 / 31 NPD
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
 11th of December 2017

E. Ceriani 
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Titanium 37T (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Titanium 37T**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Titanium 37T characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopray Titanium 37T Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Titanium 37T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Titanium 37T Heat strengthened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	41 / 5 / 5	32 / 4 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	25 / 38 / 13 NPD	20 / 37 / 10 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopray Titanium 37T Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Titanium 37T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Titanium 37T Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C2	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	41 / 5 / 5	32 / 4 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	25 / 38 / 13 NPD	20 / 37 / 10 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Ultra-60 (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Ultra-60**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Ultra-60 characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	67 / 8 / 9	66 / 8 / 9	65 / 8 / 9	64 / 8 / 9
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	29 / 48 / 38 NPD	29 / 48 / 34 NPD	29 / 48 / 31 NPD	28 / 48 / 28 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Ultra-60T (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Ultra-60T**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Ultra-60T characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopray Ultra-60T Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Ultra-60T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Ultra-60T Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	69 / 8 / 9	68 / 8 / 9	67 / 8 / 9	66 / 8 / 9
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	32 / 47 / 40 NPD	31 / 47 / 36 NPD	31 / 47 / 32 NPD	30 / 47 / 29 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopray Ultra-60T Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Ultra-60T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Ultra-60T Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	69 / 8 / 9	68 / 8 / 9	67 / 8 / 9	66 / 8 / 9
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	32 / 47 / 40 NPD	31 / 47 / 36 NPD	31 / 47 / 32 NPD	30 / 47 / 29 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Ultraselect-50 on Clearvision (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Ultraselect-50 on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Ultraselect-50 on Clearvision characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	56 / 6 / 18	55 / 6 / 18	55 / 6 / 18	55 / 6 / 18
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	25 / 46 / 47 NPD	25 / 46 / 46 NPD	25 / 46 / 44 NPD	25 / 46 / 43 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 8th of October 2015


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Vision-36T (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-36T**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-36T characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	NPD	NPD
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopray Vision-36T Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-36T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-36T Heat strengthened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	39 / 31 / 29	38 / 31 / 29
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	21 / 55 / 41 NPD	20 / 56 / 37 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopray Vision-36T Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-36T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-36T Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	39 / 31 / 29	38 / 31 / 29
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	21 / 55 / 41 NPD	20 / 56 / 37 NPD
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Vision-40 (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-40**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-40 characteristics in :	AVCP Systems	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	44 / 9 / 18	44 / 9 / 18	44 / 9 / 17
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	21 / 48 / 41 NPD	21 / 48 / 39 NPD	21 / 48 / 37 NPD
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Vision-40T (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-40T**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-40T characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopray Vision-40T Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-40T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-40T Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	45 / 9 / 18	44 / 9 / 18	44 / 9 / 18	44 / 9 / 17
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	21 / 48 / 44 NPD	21 / 48 / 41 NPD	21 / 48 / 39 NPD	21 / 48 / 37 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopray Vision-40T Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-40T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-40T Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	45 / 9 / 18	44 / 9 / 18	44 / 9 / 18	44 / 9 / 17
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	21 / 48 / 44 NPD	21 / 48 / 41 NPD	21 / 48 / 39 NPD	21 / 48 / 37 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Vision-50 (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-50**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-50 characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	55 / 17 / 17	55 / 17 / 17	55 / 17 / 16	54 / 17 / 16	53 / 17 / 16	53 / 17 / 16
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	29 / 43 / 35 NPD	29 / 43 / 33 NPD	28 / 43 / 32 NPD	28 / 43 / 29 NPD	27 / 43 / 27 NPD	27 / 43 / 25 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Vision-50 on Clearvision (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-50 on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-50 on Clearvision characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)	35 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	56/17/17	56/17/17	56/17/17	56/17/17	56/17/17	56/17/17
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	30/43/42 NPD	30/43/41 NPD	30/43/41 NPD	30/43/40 NPD	30/43/39 NPD	30/43/38 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Vision-50T (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-50T**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-50T characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopray Vision-50T Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-50T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-50T Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	55 / 16 / 15	55 / 16 / 15	54 / 16 / 15	53 / 16 / 14
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	31 / 44 / 35 NPD	31 / 44 / 31 NPD	30 / 44 / 29 NPD	29 / 44 / 26 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopray Vision-50T Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-50T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-50T Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	55 / 16 / 15	55 / 16 / 15	54 / 16 / 15	53 / 16 / 14
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	31 / 44 / 35 NPD	31 / 44 / 31 NPD	30 / 44 / 29 NPD	29 / 44 / 26 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Vision-51 (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-51**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-51 characteristics in :	AVCP Systems	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	56 / 8 / 12	56 / 8 / 12	55 / 7 / 12
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	28 / 43 / 35 NPD	27 / 43 / 33 NPD	27 / 43 / 31 NPD
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Vision-51T (annealed)



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-51T**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-51T characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
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CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopray Vision-51T Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-51T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-51T Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	57 / 8 / 12	56 / 8 / 12	56 / 8 / 12	55 / 7 / 12
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	28 / 43 / 37 NPD	28 / 43 / 35 NPD	27 / 43 / 33 NPD	27 / 43 / 31 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopray Vision-51T Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-51T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-51T Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	57 / 8 / 12	56 / 8 / 12	56 / 8 / 12	55 / 7 / 12
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	28 / 43 / 37 NPD	28 / 43 / 35 NPD	27 / 43 / 33 NPD	27 / 43 / 31 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Vision-60 (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-60**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-60 characteristics in :	AVCP Systems	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	67 / 12 / 12	66 / 12 / 11	65 / 12 / 11
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	36 / 38 / 29 NPD	35 / 38 / 26 NPD	34 / 38 / 24 NPD
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Vision-60T (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-60T**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-60T characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopray Vision-60T Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-60T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-60T Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	66 / 15 / 11	66 / 15 / 11	65 / 15 / 11	64 / 15 / 11
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	39 / 41 / 30 NPD	38 / 41 / 26 NPD	37 / 41 / 23 NPD	36 / 41 / 21 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopray Vision-60T Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-60T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-60T Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	66 / 15 / 11	66 / 15 / 11	65 / 15 / 11	64 / 15 / 11
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	39 / 41 / 30 NPD	38 / 41 / 26 NPD	37 / 41 / 23 NPD	36 / 41 / 21 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Vision-61 (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-61**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-61 characteristics in :	AVCP Systems	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	67 / 6 / 9	67 / 6 / 9	66 / 6 / 9
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	34 / 42 / 33 NPD	34 / 42 / 31 NPD	33 / 42 / 29 NPD
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Vision-61T (annealed)



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-61T characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopray Vision-61T Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-61T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-61T Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	68 / 6 / 10	67 / 6 / 9	67 / 6 / 9	66 / 6 / 9
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	35 / 42 / 35 NPD	34 / 42 / 33 NPD	34 / 42 / 31 NPD	33 / 42 / 29 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopray Vision-61T Thermally toughened or Heat soaked thermally toughened



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-61T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-61T Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	68 / 6 / 10	67 / 6 / 9	67 / 6 / 9	66 / 6 / 9
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	35 / 42 / 35 NPD	34 / 42 / 33 NPD	34 / 42 / 31 NPD	33 / 42 / 29 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Vision-72 (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-72**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-72 characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	80 / 8 / 8	79 / 8 / 8	79 / 8 / 8	78 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	41 / 44 / 38 NPD	40 / 44 / 35 NPD	40 / 43 / 33 NPD	39 / 43 / 31 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Vision-72 on Clearvision (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-72 on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-72 on Clearvision characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	81 / 8 / 8	81 / 8 / 8	81 / 8 / 8	80 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	41 / 44 / 41 NPD	41 / 44 / 40 NPD	41 / 44 / 39 NPD	41 / 44 / 39 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Vision-72T (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-72T**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-72T characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopray Vision-72T Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-72T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-72T Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	80 / 8 / 8	79 / 8 / 8	79 / 8 / 8	78 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	41 / 44 / 38 NPD	40 / 44 / 35 NPD	40 / 43 / 33 NPD	39 / 43 / 31 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopray Vision-72T Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-72T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-72T Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	80 / 8 / 8	79 / 8 / 8	79 / 8 / 8	78 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	41 / 44 / 38 NPD	40 / 44 / 35 NPD	40 / 43 / 33 NPD	39 / 43 / 31 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopray Vision-72T on Clearvision (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-72T on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-72T on Clearvision characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	NPD	NPD	NPD	NPD
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	NPD NPD	NPD NPD	NPD NPD	NPD NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopray Vision-72T on Clearvision Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-72T on Clearvision Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-72T on Clearvision Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	81 / 8 / 8	81 / 8 / 8	81 / 8 / 8	80 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	41 / 44 / 41 NPD	41 / 44 / 40 NPD	41 / 44 / 39 NPD	41 / 44 / 39 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 8th of October 2015


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances



Stopray Vision-72T on Clearvision Thermally toughened or Heat soaked thermally toughened

We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-72T on Clearvision Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopray Vision-72T on Clearvision Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	81 / 8 / 8	81 / 8 / 8	81 / 8 / 8	80 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	41 / 44 / 41 NPD	41 / 44 / 40 NPD	41 / 44 / 39 NPD	41 / 44 / 39 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 8th of October 2015

E. Ceriani 
 Primary Sales & Strategic, Marketing Director, Building

Stopsol



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopsol Classic Clear (annealed)



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Classic Clear**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Classic Clear characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	38 / 34 / 27	38 / 34 / 27	38 / 34 / 27	37 / 34 / 26
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	48 / 29 / 22 54	47 / 29 / 22 53	46 / 29 / 21 52	44 / 28 / 20 51
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopsol Classic Clear Heat strengthened



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Classic Clear Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Classic Clear Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	38 / 34 / 27	38 / 34 / 27	38 / 34 / 27	37 / 34 / 26
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	48 / 29 / 22 54	47 / 29 / 22 53	46 / 29 / 21 52	44 / 28 / 20 51
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopsol Classic Clear Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Classic Clear Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Classic Clear Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C3	1C2	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	38 / 34 / 27	38 / 34 / 27	38 / 34 / 27	37 / 34 / 26
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	48 / 29 / 22 54	47 / 29 / 22 53	46 / 29 / 21 52	44 / 28 / 20 51
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopsol Classic Bronze (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Classic Bronze**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Classic Bronze characteristics in :	AVCP Systems	4 mm	5 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	26 / 34 / 15	24 / 34 / 13	22 / 34 / 12
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	35 / 28 / 14 44	32 / 28 / 12 42	29 / 28 / 10 39
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopsol Classic Bronze Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Classic Bronze Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Classic Bronze Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	26 / 34 / 15	24 / 34 / 13	22 / 34 / 12
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	35 / 28 / 14 44	32 / 28 / 12 42	29 / 28 / 10 39
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopsol Classic Bronze Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Classic Bronze Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Classic Bronze Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	1C3	1C3	1C2
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	26 / 34 / 15	24 / 34 / 13	22 / 34 / 12
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	35 / 28 / 14 44	32 / 28 / 12 42	29 / 28 / 10 39
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopsol Classic Dark Blue (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Classic Dark Blue**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Classic Dark Blue characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	24 / 34 / 14	20 / 28 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	21 / 34 / 12 32	15 / 28 / 8 29
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopsol Classic Dark Blue Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Classic Dark Blue Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Classic Dark Blue Heat strengthened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	24 / 34 / 14	20 / 28 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	21 / 34 / 12 32	15 / 28 / 8 29
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances

Stopsol Classic Dark Blue Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Classic Dark Blue Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Classic Dark Blue Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C2	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	24 / 34 / 14	20 / 28 / 10
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	21 / 34 / 12 32	15 / 28 / 8 29
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopsol Classic Green (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Classic Green**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Classic Green characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	33 / 34 / 22	32 / 34 / 21	31 / 34 / 20	29 / 34 / 18
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	28 / 28 / 13 39	25 / 28 / 12 36	22 / 28 / 11 34	18 / 28 / 9 30
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopsol Classic Green Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Classic Green Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Classic Green Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	33 / 34 / 22	32 / 34 / 21	31 / 34 / 20	29 / 34 / 18
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	28 / 28 / 13 39	25 / 28 / 12 36	22 / 28 / 11 34	18 / 28 / 9 30
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopsol Classic Green Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Classic Green Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Classic Green Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C3	1C2	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	33 / 34 / 22	32 / 34 / 21	31 / 34 / 20	29 / 34 / 18
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	28 / 28 / 13 39	25 / 28 / 12 36	22 / 28 / 11 34	18 / 28 / 9 30
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopsol Classic Grey (annealed)



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Classic Grey**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Classic Grey characteristics in :	AVCP Systems	4 mm	5 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	24 / 34 / 13	21 / 34 / 11	19 / 34 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	33 / 28 / 13 42	30 / 28 / 11 40	27 / 28 / 10 37
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopsol Classic Grey Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Classic Grey Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Classic Grey Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	24 / 34 / 13	21 / 34 / 11	19 / 34 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	33 / 28 / 13 42	30 / 28 / 11 40	27 / 28 / 10 37
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopsol Classic Grey Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Classic Grey Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Classic Grey Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C3	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	24 / 34 / 13	21 / 34 / 11	19 / 34 / 10
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	33 / 28 / 13 42	30 / 28 / 11 40	27 / 28 / 10 37
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopsol Phoenix Clear (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Phoenix Clear**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Phoenix Clear characteristics in :	AVCP Systems	4 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5.7 0,89	5.7 0,89	5.6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	67 / 32 / 31	67 / 31 / 30	66 / 31 / 30
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	69 / 25 / 23 70	67 / 25 / 22 69	64 / 25 / 21 67
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopsol Phoenix Clear Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Phoenix Clear Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Phoenix Clear Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5.7 0,89	5.7 0,89	5.6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	67 / 32 / 31	67 / 31 / 30	66 / 31 / 30
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	69 / 25 / 23 70	67 / 25 / 22 69	64 / 25 / 21 67
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopsol Phoenix Clear Thermally toughened or Heat soaked thermally toughened



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Phoenix Clear Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5.7 0,89	5.7 0,89	5.6 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	67 / 32 / 31	67 / 31 / 30	66 / 31 / 30
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	69 / 25 / 23 70	67 / 25 / 22 69	64 / 25 / 21 67
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopsol Phoenix Green (annealed)



We

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	Stopsol Phoenix Green characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	54 / 31 / 22	50 / 31 / 20
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	34 / 23 / 12 34	28 / 23 / 11 30
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopsol Phoenix Green Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Phoenix Green Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Phoenix Green Heat strengthened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	54 / 31 / 22	50 / 31 / 20
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	34 / 23 / 12 34	28 / 23 / 11 30
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopsol Phoenix Green Thermally toughened or Heat soaked thermally toughened



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Phoenix Green Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	54 / 31 / 22	50 / 31 / 20
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	34 / 23 / 12 34	28 / 23 / 11 30
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopsol Phoenix Grey (annealed)



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Phoenix Grey characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	33 / 30 / 11	26 / 30 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	38 / 23 / 10 47	30 / 23 / 8 41
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
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CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopsol Phoenix Grey Heat strengthened



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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Phoenix Grey Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Phoenix Grey Heat strengthened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	33 / 30 / 11	26 / 30 / 8
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	38 / 23 / 10 47	30 / 23 / 8 41
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005



Declaration of performances
Stopsol Phoenix Grey Thermally toughened or Heat soaked thermally toughened

We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Phoenix Grey Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Phoenix Grey Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	33 / 30 / 11	26 / 30 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	38 / 23 / 10 47	30 / 23 / 8 41
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopsol SilverLight PrivaBlue (annealed)



We

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol SilverLight PrivaBlue characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	27 / 24 / 8	20 / 24 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	16 / 20 / 6 31	11 / 20 / 6 27
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopsol SilverLight PrivaBlue Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol SilverLight PrivaBlue Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

	Stopsol SilverLight PrivaBlue Heat strengthened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	27 / 24 / 8	20 / 24 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	16 / 20 / 6 31	11 / 20 / 6 27
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances

Stopsol SilverLight PrivaBlue Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol SilverLight PrivaBlue Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol SilverLight PrivaBlue Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C2	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	27 / 24 / 8	20 / 24 / 6
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	16 / 20 / 6 31	11 / 20 / 6 27
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopsol Supersilver Clear (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Supersilver Clear**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

	Stopsol Supersilver Clear characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	64 / 35 / 35	64 / 35 / 34	63 / 35 / 34	62 / 35 / 34	62 / 35 / 33
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	66 / 28 / 25 68	65 / 28 / 25 67	64 / 27 / 24 66	62 / 27 / 23 64	59 / 27 / 22 63
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopsol Supersilver Clear Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Supersilver Clear Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Supersilver Clear Heat strengthened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	64 / 35 / 35	64 / 35 / 34	63 / 35 / 34	62 / 35 / 34	62 / 35 / 33
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	66 / 28 / 25 68	65 / 28 / 25 67	64 / 27 / 24 66	62 / 27 / 23 64	59 / 27 / 22 63
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopsol Supersilver Clear Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Supersilver Clear Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Supersilver Clear Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	5 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	64 / 35 / 35	64 / 35 / 34	63 / 35 / 34	62 / 35 / 34	62 / 35 / 33
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	66 / 28 / 25 68	65 / 28 / 25 67	64 / 27 / 24 66	62 / 27 / 23 64	59 / 27 / 22 63
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopsol Supersilver Dark Blue (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Supersilver Dark Blue**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Supersilver Dark Blue characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	41 / 34 / 17	35 / 34 / 14
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	30 / 26 / 12 40	24 / 26 / 10 36
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopsol Supersilver Dark Blue Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Supersilver Dark Blue Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Supersilver Dark Blue Heat strengthened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	41 / 34 / 17	35 / 34 / 14
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	30 / 26 / 12 40	24 / 26 / 10 36
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances



Stopsol Supersilver Dark Blue Thermally toughened or Heat soaked thermally toughened

We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Supersilver Dark Blue Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Supersilver Dark Blue Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C2	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	41 / 34 / 17	35 / 34 / 14
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	30 / 26 / 12 40	24 / 26 / 10 36
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopsol Supersilver Green (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Supersilver Green**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Supersilver Green characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	52 / 34 / 25	48 / 34 / 22
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	33 / 26 / 14 43	27 / 26 / 12 38
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopsol Supersilver Green Heat strengthened



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Supersilver Green Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Supersilver Green Heat strengthened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	52 / 34 / 25	48 / 34 / 22
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	33 / 26 / 14 43	27 / 26 / 12 38
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances



Stopsol Supersilver Green Thermally toughened or Heat soaked thermally toughened

We

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Building Division

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 Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Supersilver Green Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Supersilver Green Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C2	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	52 / 34 / 25	48 / 34 / 22
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	33 / 26 / 14 43	27 / 26 / 12 38
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015

E. Ceriani

Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Stopsol Supersilver Grey (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Supersilver Grey**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Supersilver Grey characteristics in :	AVCP Systems	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	34 / 34 / 13	29 / 34 / 11	23 / 34 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	38 / 27 / 11 46	34 / 27 / 10 43	26 / 26 / 8 38
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Stopsol Supersilver Grey Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Supersilver Grey Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Supersilver Grey Heat strengthened characteristics in :	AVCP Systems	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	34 / 34 / 13	29 / 34 / 11	23 / 34 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	38 / 27 / 11 46	34 / 27 / 10 43	26 / 26 / 8 38
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Stopsol Supersilver Grey Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopsol Supersilver Grey Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stopsol Supersilver Grey Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	5 mm	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-1;-2)	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,8 0,89	5,7 0,89	5,7 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	34 / 34 / 13	29 / 34 / 11	23 / 34 / 8
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	38 / 27 / 11 46	34 / 27 / 10 43	26 / 26 / 8 38
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building

Stratobel



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel clear (22.x, 33.x)



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel characteristics in :	AVCP Systems	22.1	22.2	33.1	33.2	33.4
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	P1A-P2A	P3A-P4A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	2B2	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	32 (-1;-3)	33 (-1;-4)	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,7 0,89	5,7 0,89	5,6 0,89	5,5 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	89 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	79 / 7 / 7 82	77 / 7 / 7 81	76 / 7 / 7 80	74 / 7 / 7 79	72 / 7 / 7 77
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel clear (44.x, 55.x)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel characteristics in :	AVCP Systems	44.1	44.2	44.4	44.6	55.1	55.2	55.4
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	P3A-P4A	P5A	NPD	P1A-P2A	P3A-P4A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	1B1	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (-1;-2)	35 (-1;-3)	NPD	35 (-1;-3)	35 (-1;-3)	NPD	36 (-1;-4)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,6 0,89	5,6 0,89	5,5 0,89	5,3 0,89	5,6 0,89	5,5 0,89	5,4 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	88 / 8 / 8	88 / 8 / 8	88 / 8 / 8	88 / 8 / 8	87 / 8 / 8	87 / 8 / 8	87 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	73 / 7 / 7 78	72 / 7 / 7 77	70 / 7 / 7 75	69 / 7 / 7 74	70 / 7 / 7 76	69 / 7 / 7 75	67 / 7 / 7 73
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel clear (66.x)



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel characteristics in :	AVCP Systems	66.1	66.2	66.4	66.6
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	P3A-P4A	P5A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	36 (-1;-3)	37 (-1;-4)	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,5 0,89	5,4 0,89	5,3 0,89	5,2 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	86 / 8 / 8	86 / 8 / 8	86 / 8 / 8	86 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	68 / 7 / 7 74	66 / 7 / 7 73	65 / 6 / 6 72	64 / 6 / 6 71
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel clear (88.x, 10 10.x)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel characteristics in :	AVCP Systems	88.1	88.2	88.4	10 10.2	10 10.4
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	P3A-P4A	P1A-P2A	P3A-P4A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	39 (-1;-3)	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,3 0,89	5,3 0,89	5,2 0,89	5,2 0,89	5,1 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	84 / 8 / 8	84 / 8 / 8	84 / 8 / 8	82 / 7 / 7	82 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	63 / 6 / 6 70	62 / 6 / 6 69	60 / 6 / 6 68	58 / 6 / 6 66	56 / 6 / 6 65
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Linea Azzurra (88.x, 10 10.x)



We

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Building Division

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 Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel Linea Azzurra**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel Linea Azzurra characteristics in :	AVCP Systems	88.2	88.4	10 10.2	10 10.4
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P1A-P2A	P3A-P4A	P1A-P2A	P3A-P4A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	39 (-1;-3)	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,3 0,89	5,2 0,89	5,2 0,89	5,1 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	84 / 8 / 8	84 / 8 / 8	83 / 7 / 7	83 / 7 / 7
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	64 / 6 / 6 71	63 / 6 / 6 70	60 / 6 / 6 68	59 / 6 / 6 67
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 11th of December 2017

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel iplus Advanced 1.0 on Clearlite



We

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Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel iplus Advanced 1.0 on Clearlite**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel iplus Advanced 1.0 on Clearlite characteristics in :	AVCP Systems	33.1	33.2	44.1	44.2	66.1	66.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	2B2	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	32 (-1;-3)	33 (-1;-4)	34 (-1;-2)	35 (-1;-3)	NPD	36 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	84 / 9 / 10	84 / 9 / 10	83 / 8 / 10	83 / 8 / 10	81 / 8 / 10	81 / 8 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	51 / 36 / 27 NPD	50 / 35 / 26 NPD	50 / 35 / 25 NPD	50 / 35 / 24 NPD	48 / 35 / 23 NPD	48 / 35 / 22 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
21st of February 2017

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel iplus Energy N



We

AGC Glass Europe
Building Division

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 Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel iplus Energy N**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel iplus Energy N characteristics in :	AVCP Systems	33.1	33.2	44.1	44.2	66.1	66.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	2B2	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	32 (-1;-3)	33 (-1;-4)	34 (-1;-2)	35 (-1;-3)	NPD	36 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	80 / 7 / 7	80 / 7 / 7	79 / 7 / 7	79 / 7 / 7	77 / 7 / 6	77 / 7 / 6
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	40 / 41 / 26 NPD	40 / 41 / 25 NPD	39 / 41 / 24 NPD	39 / 41 / 23 NPD	38 / 41 / 20 NPD	37 / 41 / 19 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel iplus I-Top



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel iplus I-Top**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel iplus I-Top characteristics in :	AVCP Systems	22.1	22.2	33.1	33.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	2B2	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	32 (-1;-3)	33 (-1;-4)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	87 / 6 / 7	87 / 6 / 7	86 / 6 / 7	86 / 6 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	57 / 29 / 22 NPD	56 / 29 / 21 NPD	54 / 28 / 19 NPD	54 / 28 / 18 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel iplus I-Top



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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel iplus I-Top**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel iplus I-Top characteristics in :	AVCP Systems	44.1	44.2	55.1	55.2	66.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	P1A-P2A	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (-1;-2)	35 (-1;-3)	35 (-1;-3)	NPD	36 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	85 / 5 / 7	85 / 5 / 7	84 / 5 / 7	84 / 5 / 7	83 / 5 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	52 / 28 / 17 NPD	52 / 28 / 16 NPD	51 / 28 / 15 NPD	50 / 28 / 14 NPD	48 / 28 / 13 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel iplus I-Top on Clearlite



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel iplus I-Top on Clearlite**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel iplus I-Top on Clearlite characteristics in :	AVCP Systems	33.1	33.2	44.1	44.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	2B2	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	32 (-1;-3)	33 (-1;-4)	34 (-1;-2)	35 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	87 / 6 / 7	87 / 6 / 7	86 / 6 / 7	86 / 6 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	57 / 29 / 22 NPD	57 / 29 / 21 NPD	56 / 29 / 21 NPD	55 / 29 / 20 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
13rd of June 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel iplus Light



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel iplus Light**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel iplus Light characteristics in :	AVCP Systems	22.1	22.2	33.1	44.1
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	2B2	2B2
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	32 (-1;-3)	34 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	71/19/21	71/19/21	71/19/21	71/19/21
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	41/43/34 NPD	41/43/33 NPD	41/43/29 NPD	40/43/26 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel iplus Light on Clearlite



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel iplus Light on Clearlite**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel iplus Light on Clearlite characteristics in :	AVCP Systems	44.1	44.2	66.1	66.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (-1;-2)	35 (-1;-3)	NPD	36 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	71 / 19 / 21	71 / 19 / 21	69 / 19 / 20	69 / 19 / 20
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	41 / 43 / 33 NPD	40 / 43 / 31 NPD	39 / 43 / 29 NPD	39 / 43 / 28 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 15th of June 2017

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel iplus LS



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel iplus LS**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel iplus LS characteristics in :	AVCP Systems	33.1	33.2	44.1	44.2	66.1	66.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	2B2	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	32 (-1;-3)	33 (-1;-4)	34 (-1;-2)	35 (-1;-3)	NPD	36 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,08	NPD 0,08	NPD 0,08	NPD 0,08	NPD 0,08	NPD 0,08
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	89 / 6 / 6	89 / 6 / 6	88 / 6 / 6	88 / 6 / 6	87 / 6 / 6	87 / 6 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	68 / 17 / 13 NPD	67 / 17 / 13 NPD	66 / 17 / 13 NPD	66 / 17 / 12 NPD	64 / 17 / 12 NPD	63 / 17 / 11 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 21st of February 2017

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel iplus Top 1.0



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel iplus Top 1.0**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel iplus Top 1.0 characteristics in :	AVCP Systems	22.1	22.2	33.1	33.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	2B2	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	32 (-1;-3)	33 (-1;-4)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	77 / 15 / 17	77 / 15 / 17	76 / 15 / 17	76 / 15 / 17
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	45 / 42 / 33 NPD	45 / 42 / 32 NPD	45 / 42 / 30 NPD	44 / 42 / 29 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel iplus Top 1.0



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel iplus Top 1.0**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel iplus Top 1.0 characteristics in :	AVCP Systems	44.1	44.2	66.1	66.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (-1;-2)	35 (-1;-3)	NPD	36 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	75 / 15 / 17	75 / 15 / 17	74 / 14 / 16	74 / 14 / 16
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	44 / 42 / 28 NPD	43 / 42 / 27 NPD	42 / 42 / 24 NPD	42 / 42 / 23 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel iplus Top 1.0 on Clearlite



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel iplus Top 1.0 on Clearlite**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel iplus Top 1.0 on Clearlite characteristics in :	AVCP Systems	44.1	44.2	66.1	66.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (-1;-2)	35 (-1;-3)	NPD	36 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	76 / 15 / 17	76 / 15 / 17	75 / 15 / 16	75 / 15 / 16
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	44 / 42 / 31 NPD	44 / 42 / 30 NPD	42 / 42 / 28 NPD	42 / 42 / 27 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 15th of June 2017

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel iplus Top 1.1 on Clearlite



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel iplus Top 1.1 on Clearlite**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel iplus Top 1.1 on Clearlite characteristics in :	AVCP Systems	33.1	33.2	44.1	44.2	66.1	66.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	2B2	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	32 (-1;-3)	33 (-1;-4)	34 (-1;-2)	35 (-1;-3)	NPD	36 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	89 / 5 / 6	89 / 5 / 6	89 / 5 / 6	89 / 5 / 6	87 / 5 / 6	87 / 5 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	60 / 26 / 20 NPD	59 / 26 / 19 NPD	59 / 26 / 19 NPD	58 / 26 / 18 NPD	56 / 26 / 17 NPD	56 / 26 / 16 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 21st of February 2017

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Low-e G (Planibel Clear + Planibel G)



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel Low-e G (Planibel Clear + Planibel G)**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel Low-e G (Planibel Clear + Planibel G) characteristics in :	AVCP Systems	33.1 G	33.2 G	44.1 G	44.2 G	66.1 G	66.2 G
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	2B2	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	32 (-1;-3)	33 (-1;-4)	34 (-1;-2)	35 (-1;-3)	NPD	36 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	3,6 0,14	3,6 0,14	3,6 0,14	3,6 0,14	3,5 0,14	3,5 0,14
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	82 / 11 / 10	82 / 11 / 10	81 / 11 / 10	81 / 11 / 10	79 / 11 / 10	79 / 11 / 10
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	67 / 11 / 9 70	66 / 11 / 9 69	65 / 11 / 9 68	65 / 11 / 9 67	62 / 11 / 8 64	61 / 10 / 8 64
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
8th of October 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Low-e Top N+



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel Low-e Top N+**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel Low-e Top N+ characteristics in :	AVCP Systems	22.1	22.2	33.1	33.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	2B2	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	32 (-1;-3)	33 (-1;-4)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	87/6/8	87/6/8	86/6/7	86/6/7
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	57/29/22 NPD	56/29/21 NPD	55/29/20 NPD	54/29/19 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Low-e Top N+



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel Low-e Top N+**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel Low-e Top N+ characteristics in :	AVCP Systems	44.1	44.2	66.1	66.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (-1;-2)	35 (-1;-3)	NPD	36 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	85/6/7	85/6/7	83/6/7	83/6/7
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	53/29/18 NPD	53/29/18 NPD	50/29/16 NPD	50/29/15 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Stopray LamiSmart 24



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel Stopray LamiSmart 24**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel Stopray LamiSmart 24 characteristics in :	AVCP Systems	44.1	66.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	2B2	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (-1;-2)	36 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,89	NPD 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	24/35/28	24/35/28
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	15/41/35 25	14/39/32 25
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
11th of December 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Stopray LamiSmart 24 (laminated with Planibel Bronze)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel Stopray LamiSmart 24 (laminated with Planibel Bronze)**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel Stopray LamiSmart 24 (laminated with Planibel Bronze) characteristics in :	AVCP Systems	44.1
1.	Resistance to fire (EN 13501-2)	1	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD
3.	External fire performances	3, 4	NPD
4.	Bullet resistance (EN 1063)	1	NPD
5.	Explosion resistance (EN 13541)	1	NPD
6.	Burglar resistance (EN 356)	3	NPD
7.	Pendulum body impact resistance (EN 12600)	3	2B2
8.	Resistance against sudden temperature change and temperature differentials	4	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	16/15/35
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	10/21/42 27
14.	Durability	3	PASS

Louvain-la-Neuve
11th of December 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Stopray LamiSmart 24 (laminated with Planibel Dark Blue)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel Stopray LamiSmart 24 (laminated with Planibel Dark Blue)**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel Stopray LamiSmart 24 (laminated with Planibel Dark Blue) characteristics in :	AVCP Systems	44.1
1.	Resistance to fire (EN 13501-2)	1	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD
3.	External fire performances	3, 4	NPD
4.	Bullet resistance (EN 1063)	1	NPD
5.	Explosion resistance (EN 13541)	1	NPD
6.	Burglar resistance (EN 356)	3	NPD
7.	Pendulum body impact resistance (EN 12600)	3	2B2
8.	Resistance against sudden temperature change and temperature differentials	4	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	18/18/35
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	10/14/42 28
14.	Durability	3	PASS

Louvain-la-Neuve
11th of December 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Stopray LamiSmart 24 (laminated with Planibel Green)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel Stopray LamiSmart 24 (laminated with Planibel Green)**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel Stopray LamiSmart 24 (laminated with Planibel Green) characteristics in :	AVCP Systems	44.1
1.	Resistance to fire (EN 13501-2)	1	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD
3.	External fire performances	3, 4	NPD
4.	Bullet resistance (EN 1063)	1	NPD
5.	Explosion resistance (EN 13541)	1	NPD
6.	Burglar resistance (EN 356)	3	NPD
7.	Pendulum body impact resistance (EN 12600)	3	2B2
8.	Resistance against sudden temperature change and temperature differentials	4	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	21/23/35
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	11/16/42 28
14.	Durability	3	PASS

Louvain-la-Neuve
11th of December 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Stopray LamiSmart 24 (laminated with Planibel Grey)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel Stopray LamiSmart 24 (laminated with Planibel Grey)**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel Stopray LamiSmart 24 (laminated with Planibel Grey) characteristics in :	AVCP Systems	44.1
1.	Resistance to fire (EN 13501-2)	1	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD
3.	External fire performances	3, 4	NPD
4.	Bullet resistance (EN 1063)	1	NPD
5.	Explosion resistance (EN 13541)	1	NPD
6.	Burglar resistance (EN 356)	3	NPD
7.	Pendulum body impact resistance (EN 12600)	3	2B2
8.	Resistance against sudden temperature change and temperature differentials	4	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	34 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	15/14/35
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	10/18/38 27
14.	Durability	3	PASS

Louvain-la-Neuve
11th of December 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Security Burglary



We

AGC Glass Europe
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel Security Burglary**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel Security Burglary characteristics in :	AVCP Systems	103-3	103-7	303-7	502-2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P6B	P7B	P8B	P6B
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,8 0,89	4,8 0,89	4,6 0,89	5,1 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	86 / 8 / 8	86 / 8 / 8	86 / 8 / 8	87 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	64 / 6 / 6 71	64 / 6 / 6 71	63 / 6 / 6 70	68 / 7 / 7 74
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
10th of August 2017

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Security Burglary (with Planibel Clearvision)



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	Stratobel Security Burglary (with Planibel Clearvision) characteristics in :	AVCP Systems	103-3	103-7	303-7	502-2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P6B	P7B	P8B	P6B
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,8 0,89	4,8 0,89	4,6 0,89	5,1 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	91 / 8 / 8	91 / 8 / 8	91 / 8 / 8	91 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	74 / 7 / 7 78	74 / 7 / 7 78	72 / 7 / 7 77	76 / 7 / 7 80
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
11th of September 2017

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Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Security Bullet



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	Stratobel Security Bullet characteristics in :	AVCP Systems	004-8-B	009-1-B	104-1-B	106-1-B
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR4 S	BR7 NS	BR2 NS	BR4 NS
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P6B	P8B	P6B	P7B
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,5 0,89	3,6 0,89	4,7 0,89	4,3 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	83 / 7 / 7	67 / 6 / 6	81 / 7 / 7	75 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	58 / 6 / 6 66	36 / 5 / 5 50	57 / 6 / 6 66	47 / 6 / 6 58
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
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	Stratobel Security Bullet characteristics in :	AVCP Systems	304-6-B	402-1-B	403-5-B	408-1-B
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR4 S – SG1 S	BR1 S	BR3 S	BR6 NS
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P6B	P3A-P4A	P6B	P8B
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ε_n coated side (EN 12898)	3	4,6 0,89	5,3 0,89	4,8 0,89	3,9 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	81 / 7 / 7	87 / 8 / 8	84 / 8 / 8	68 / 6 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	56 / 6 / 6 65	70 / 7 / 7 76	62 / 7 / 7 69	38 / 5 / 5 51
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
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	Stratobel Security Bullet characteristics in :	AVCP Systems	504-4-B	704-3-B	802-5-B
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR5 S – SG2 S	BR3 NS	BR1 NS
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P8B	P6B	P3A-P4A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,5 0,89	4,6 0,89	5,2 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	81 / 7 / 7	79 / 7 / 7	86 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	55 / 6 / 6 64	54 / 6 / 6 63	67 / 7 / 7 73
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
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	Stratobel Security Bullet characteristics in :	AVCP Systems	806-2-B	902-7 -B	905-9 -B
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR5 NS	BR2 S	BR6 S
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P7B	P5A	P7B
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,2 0,89	5,0 0,89	4,2 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	72 / 7 / 7	86 / 8 / 8	76 / 7 / 7
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	44 / 5 / 5 56	65 / 6 / 6 72	47 / 6 / 6 58
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
10th of August 2017


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	Stratobel Security Bullet characteristics in :	AVCP Systems	STOPX13	STOPX22	STOPX26	STOPX35
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR1 NS	BR2 NS	BR3 NS	BR4 NS
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,4 0,89	5,1 0,89	4,9 0,89	4,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	87 / 8 / 8	84 / 8 / 8	83 / 7 / 7	80 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	72 / 7 / 7 77	64 / 6 / 6 71	60 / 6 / 6 68	55 / 6 / 6 64
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 10th of August 2017


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CE Marking of Laminated glass – EN 14449:2005 + AC:2005
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	Stratobel Security Bullet characteristics in :	AVCP Systems	STOPX44	STOPX57	STOPX74
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR5 NS – SG1 NS	BR6 NS – SG2 NS	BR7 NS
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,4 0,89	4,1 0,89	3,9 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	77 / 7 / 7	73 / 7 / 7	68 / 6 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	50 / 6 / 6 60	44 / 5 / 5 56	38 / 5 / 5 51
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
10th of August 2017


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Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
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	Stratobel Security Bullet (with Planibel Clearvision) characteristics in :	AVCP Systems	004-8-B	009-1-B	104-1-B	106-1-B
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR4 S	BR7 NS	BR2 NS	BR4 NS
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P6B	P8B	P6B	P7B
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,5 0,89	3,6 0,89	4,7 0,89	4,3 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	91 / 8 / 8	88 / 8 / 8	90 / 8 / 8	90 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	71 / 7 / 7 76	63 / 6 / 6 70	73 / 7 / 7 78	70 / 7 / 7 75
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 11th of September 2017

E. Ceriani
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	Stratobel Security Bullet (with Planibel Clearvision) characteristics in :	AVCP Systems	304-6-B	402-1-B	403-5-B	408-1-B
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR4 S – SG1 S	BR1 S	BR3 S	BR6 NS
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P6B	P3A-P4A	P6B	P8B
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ε_n coated side (EN 12898)	3	4,6 0,89	5,3 0,89	4,8 0,89	3,9 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	90 / 8 / 8	91 / 8 / 8	91 / 8 / 8	90 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	72 / 7 / 7 77	78 / 7 / 7 82	74 / 7 / 7 78	87 / 8 / 8 88
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 11th of September 2017


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Security Bullet (with Planibel Clearvision)



We

AGC Glass Europe
Building Division

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 Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel Security Bullet (with Planibel Clearvision)**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel Security Bullet (with Planibel Clearvision) characteristics in :	AVCP Systems	504-4-B	704-3-B	802-5-B
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR5 S – SG2 S	BR3 NS	BR1 NS
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P8B	P6B	P3A-P4A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,5 0,89	4,6 0,89	5,2 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	90 / 8 / 8	90 / 8 / 8	91 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	71 / 7 / 7 76	72 / 7 / 7 77	78 / 7 / 7 81
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
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	Stratobel Security Bullet (with Planibel Clearvision) characteristics in :	AVCP Systems	806-2-B	902-7 -B	905-9 -B
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR5 NS	BR2 S	BR6 S
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P7B	P5A	P7B
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,2 0,89	5,0 0,89	4,2 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	89 / 8 / 8	91 / 8 / 8	90 / 8 / 8
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	68 / 7 / 7 74	75 / 7 / 7 80	68 / 7 / 7 74
14.	Durability	3	PASS	PASS	PASS

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	Stratobel Security Bullet (with Planibel Clearvision) characteristics in :	AVCP Systems	STOPX13	STOPX22	STOPX26	STOPX35
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR1 NS	BR2 NS	BR3 NS	BR4 NS
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,4 0,89	5,1 0,89	4,9 0,89	4,6 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	91 / 8 / 8	91 / 8 / 8	91 / 8 / 8	90 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	80 / 7 / 7 83	77 / 7 / 7 81	75 / 7 / 7 79	72 / 7 / 7 77
14.	Durability	3	PASS	PASS	PASS	PASS

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	Stratobel Security Bullet (with Planibel Clearvision) characteristics in :	AVCP Systems	STOPX44	STOPX57	STOPX74
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR5 NS – SG1 NS	BR6 NS – SG2 NS	BR7 NS
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,4 0,89	4,1 0,89	3,9 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	70 / 7 / 7 76	68 / 7 / 7 74	65 / 7 / 7 72
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
11th of September 2017


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CE Marking of Double Glazing Unit – EN 1279-5:2005 + A2:2010
Declaration of performances
Thermobel Stratobel Security Bullet



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	Thermobel Stratobel Security Bullet characteristics in :	AVCP Systems	1205-1-B	1207-1-B	2207-1-B	3206-1-B
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR4 S	BR4 NS / BR6 S	BR4 S / SG1 S	BR6 S
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P5A	P8B	P6B	P8B
7.	Pendulum body impact resistance (EN 12600)	3	1B1 / 1B1	1B1 / 1B1	1B1 / 1B1	1B1 / 1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	1,4 NPD	1,4 NPD	1,1 NPD	1,3 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	75 / 12 / 11	68 / 11 / 11	70 / 11 / 10	71 / 11 / 11
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	44 / 20 / 15 53	36 / 13 / 13 48	38 / 19 / 12 52	39 / 17 / 13 50
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 13th of April 2018


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	Thermobel Stratobel Security Bullet characteristics in :	AVCP Systems	3209-1-B	4207-1-B	6208-1-B	7206-1-B
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR6 NS	BR5 NS	BR7 S	BR4 NS
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P8B	P8B	P8B	P8B
7.	Pendulum body impact resistance (EN 12600)	3	1B1 / 1B1	1B1 / 1B1	1B1 / 1B1	1B1 / 1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	2,4 NPD	1,4 NPD	2,4 NPD	2,3 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	55 / 11 / 11	68 / 10 / 11	65 / 12 / 12	70 / 10 / 11
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	24 / 7 / 7 39	36 / 11 / 15 45	37 / 9 / 8 52	38 / 12 / 19 46
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
13th of April 2018


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Primary Sales & Strategic, Marketing Director, Building



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	Thermobel Stratobel Security Bullet characteristics in :	AVCP Systems	7207-1-B	8209-1-B	9205-1-B
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR5 NS / SG1 NS	BR7 NS / SG2 NS	BR3 NS
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P6B	P8B	P6B
7.	Pendulum body impact resistance (EN 12600)	3	1B1 / 1B1	1B1 / 1B1	1B1 / 1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	1,1 NPD	2,3 NPD	1,4 NPD
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	64 / 11 / 9	62 / 11 / 12	72 / 11 / 11
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	30 / 18 / 7 51	33 / 8 / 8 47	40 / 13 / 20 48
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
10th of August 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Double Glazing Unit – EN 1279-5:2005 + A2:2010
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Thermobel Stratobel Security Bullet



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	Thermobel Stratobel Security Bullet characteristics in :	AVCP Systems	VIX55	VIX61	VIX66
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR4 NS / SG1 NS	BR5 NS / SG2 NS	BR6 NS / SG2 NS
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P6B	P6B	P7B
7.	Pendulum body impact resistance (EN 12600)	3	1B1 / 1B1	1B1 / 1B1	1B1 / 1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	1,1 NPD	1,1 NPD	1,0 NPD
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	72 / 11 / 11	70 / 11 / 10	67 / 11 / 10
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	40 / 19 / 13 52	38 / 20 / 11 53	33 / 20 / 8 52
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
 10th of August 2017


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	Thermobel Stratobel Security Bullet (with Planibel Clearvision) characteristics in :	AVCP Systems	1205-1-B	1207-1-B	2207-1-B
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR4 S	BR4 NS / BR6 S	BR4 S / SG1 S
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P5A	P8B	P6B
7.	Pendulum body impact resistance (EN 12600)	3	1B1 / 1B1	1B1 / 1B1	1B1 / 1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	1,4 NPD	1,4 NPD	1,1 NPD
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	83 / 12 / 12	78 / 12 / 12	82 / 12 / 12
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	53 / 25 / 21 58	46 / 21 / 16 57	52 / 24 / 20 57
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
 13th of April 2018


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	Thermobel Stratobel Security Bullet (with Planibel Clearvision) characteristics in :	AVCP Systems	3206-1-B	4207-1-B	6208-1-B
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR6 S	BR5 NS	BR7 S
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P8B	P8B	P8B
7.	Pendulum body impact resistance (EN 12600)	3	1B1 / 1B1	1B1 / 1B1	1B1 / 1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	1,3 NPD	1,4 NPD	2,4 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	82 / 12 / 12	82 / 12 / 12	82 / 15 / 15
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	52 / 24 / 20 57	50 / 19 / 22 56	60 / 12 / 11 69
14.	Durability	3	PASS	PASS	PASS

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 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Double Glazing Unit – EN 1279-5:2005 + A2:2010
Declaration of performances
Thermobel Stratobel Security Bullet (with Planibel Clearvision)



We

AGC Glass Europe
Building Division

Avenue Jean Monnet 4 - 1348 Louvain-la-Neuve - Belgium
Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Thermobel Stratobel Security Bullet (with Planibel Clearvision)**, intended to be used in buildings and construction works, following **EN 1279-5:2005 + A2:2010**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Thermobel Stratobel Security Bullet (with Planibel Clearvision) characteristics in :	AVCP Systems	7206-1-B	8209-1-B	9205-1-B
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR4 NS	BR7 NS / SG2 NS	BR3 NS
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P8B	P8B	P6B
7.	Pendulum body impact resistance (EN 12600)	3	1B1 / 1B1	1B1 / 1B1	1B1 / 1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	2,3 NPD	2,3 NPD	1,4 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	82 / 12 / 12	82 / 15 / 15	83 / 12 / 12
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	52 / 20 / 24 57	58 / 11 / 11 66	53 / 21 / 25 58
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
13th of April 2018


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Double Glazing Unit – EN 1279-5:2005 + A2:2010
Declaration of performances
Thermobel Stratobel Security Bullet (with Planibel Clearvision)



We

AGC Glass Europe
Building Division

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 Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

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NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Thermobel Stratobel Security Bullet (with Planibel Clearvision) characteristics in :	AVCP Systems	VIX55	VIX61
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	BR4 NS / SG1 NS	BR5 NS / SG2 NS
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	P6B	P6B
7.	Pendulum body impact resistance (EN 12600)	3	1B1 / 1B1	1B1 / 1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	1,1 NPD	1,1 NPD
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	83 / 12 / 12	82 / 12 / 12
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	53 / 24 / 22 57	52 / 25 / 20 57
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
 11th of September 2017


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Security Explosion



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel Security Explosion**, intended to be used in buildings and construction works, following **EN 13541**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel Security Explosion characteristics in :	AVCP Systems	002-2-EX	902-2-EX	823.860-EX PC
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	BR4 NS – SG1 NS
5.	Explosion resistance (EN 13541)	1	ER1 S	ER2 S	ER3-NS
6.	Burglar resistance (EN 356)	3	P5A	P6B	P7B
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	35 (-1;-3)	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,3 0,89	5,0 0,89	4,9 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	89 / 8 / 8	86 / 8 / 8	83 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	72 / 7 / 7 77	65 / 6 / 6 72	62 / 6 / 6 70
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
10th of August 2017


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Security Explosion (with Planibel Clearvision)



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel Security Explosion (with Planibel Clearvision)**, intended to be used in buildings and construction works, following **EN 13541**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel Security Explosion (with Planibel Clearvision) characteristics in :	AVCP Systems	002-2-EX	902-2-EX	823.860-EX PC
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	BR4 NS – SG1 NS
5.	Explosion resistance (EN 13541)	1	ER1 S	ER2 S	ER3-NS
6.	Burglar resistance (EN 356)	3	P5A	P6B	P7B
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	35 (-1;-3)	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,3 0,89	5,0 0,89	4,9 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	91 / 8 / 8	91 / 8 / 8	89 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	78 / 7 / 7 81	75 / 7 / 7 80	73 / 7 / 7 78
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
 11th of September 2017


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Linea Azzurra Bullet resistant



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel Linea Azzurra**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel Linea Azzurra characteristics in :	AVCP Systems	88-C
1.	Resistance to fire (EN 13501-2)	1	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD
3.	External fire performances	3, 4	NPD
4.	Bullet resistance (EN 1063)	1	BR2 S
5.	Explosion resistance (EN 13541)	1	NPD
6.	Burglar resistance (EN 356)	3	P7B
7.	Pendulum body impact resistance (EN 12600)	3	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,8 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	82 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	53 / 6 / 6 NPD
14.	Durability	3	PASS

Louvain-la-Neuve
17th of October 2016


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building

Stratobel EVA



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel EVA



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel EVA**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel EVA characteristics with tempered components:	AVCP Systems	55.2T	66.2T	68.2T	88.2T	10 10.3T	12 12.3T	15 15.4T
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,5 0,89	5,4 0,89	5,4 0,89	5,3 0,89	5,2 0,89	5,1 0,89	4,9 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	86 / 8 / 8	85 / 8 / 8	84 / 8 / 8	83 / 8 / 8	81 / 7 / 7	80 / 7 / 7	77 / 7 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	67 / 7 / 7 NPD	65 / 6 / 6 NPD	63 / 6 / 6 NPD	61 / 6 / 6 NPD	55 / 6 / 6 NPD	52 / 6 / 6 NPD	47 / 6 / 6 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building

Stratobel Strong



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Strong (2x Planibel Clearlite)



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel Strong (2x Planibel Clearlite)**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel Strong (2x Planibel Clearlite) characteristics in :	AVCP Systems	44.2	55.2	66.2	88.2	1010.2	1212.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P1A-P2A	P1A-P2A	P1A-P2A	P1A-P2A	P1A-P2A	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	33 (-1;-2)	35 (-2;-3)	36 (-1;-2)	37 (-1;-3)	38 (-1;-3)	39 (-1;-4)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,5 0,89	5,5 0,89	5,4 0,89	5,3 0,89	5,2 0,89	5,1 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	89 / 8 / 8	89 / 8 / 8	88 / 8 / 8	87 / 8 / 8	85 / 8 / 8	84 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	77 / 7 / 7 81	76 / 7 / 7 80	74 / 7 / 7 79	71 / 7 / 7 76	68 / 7 / 7 74	66 / 6 / 6 72
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 16th of November 2015

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel Strong (2x Planibel Clearvision)



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel Strong (2x Planibel Clearvision)**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel Strong (2x Planibel Clearvision) characteristics in :	AVCP Systems	44.2	55.2	66.2	88.2	1010.2	1212.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	P1A-P2A	P1A-P2A	P1A-P2A	P1A-P2A	P1A-P2A	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	33 (-1;-2)	35 (-2;-3)	36 (-1;-2)	37 (-1;-3)	38 (-1;-3)	39 (-1;-4)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,5 0,89	5,5 0,89	5,4 0,89	5,3 0,89	5,2 0,89	5,1 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	91 / 8 / 8	91 / 8 / 8	91 / 8 / 8	90 / 8 / 8	90 / 8 / 8	90 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	82 / 8 / 8 85	82 / 8 / 8 84	81 / 7 / 7 84	80 / 7 / 7 83	79 / 7 / 7 82	78 / 7 / 7 82
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 16th of November 2015

E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building

Stratobel – Other products



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel – Other products (level 3)



We

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Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel (level 3 products) characteristics in :	AVCP Systems	For 13 characteristics, see www.YourGlass.com/ce
1.	Resistance to fire (EN 13501-2)	1	
2.	Reaction to fire (EN 13501-1)	3, 4	
3.	External fire performances	3, 4	
4.	Bullet resistance (EN 1063)	1	
5.	Explosion resistance (EN 13541)	1	
6.	Burglar resistance (EN 356)	3	
7.	Pendulum body impact resistance (EN 12600)	3	
8.	Resistance against sudden temperature change and temperature differentials	4	
9.	Wind, snow, permanent and imposed load resistance	4	
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	
14.	Durability	3	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel – Other products (level 1)



We

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	Stratobel (level 1 products) characteristics in :	AVCP Systems	
1.	Resistance to fire (EN 13501-2)	1	For 13 characteristics, see www.YourGlass.com/lce
2.	Reaction to fire (EN 13501-1)	3, 4	
3.	External fire performances	3, 4	
4.	Bullet resistance (EN 1063)	1	
5.	Explosion resistance (EN 13541)	1	
6.	Burglar resistance (EN 356)	3	
7.	Pendulum body impact resistance (EN 12600)	3	
8.	Resistance against sudden temperature change and temperature differentials	4	
9.	Wind, snow, permanent and imposed load resistance	4	
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	
14.	Durability	3	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel – Other products (level 3)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

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	Stratobel (level 3 products) characteristics in :	AVCP Systems	For 13 characteristics, see www.YourGlass.com/ce
1.	Resistance to fire (EN 13501-2)	1	
2.	Reaction to fire (EN 13501-1)	3, 4	
3.	External fire performances	3, 4	
4.	Bullet resistance (EN 1063)	1	
5.	Explosion resistance (EN 13541)	1	
6.	Burglar resistance (EN 356)	3	
7.	Pendulum body impact resistance (EN 12600)	3	
8.	Resistance against sudden temperature change and temperature differentials	4	
9.	Wind, snow, permanent and imposed load resistance	4	
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	
14.	Durability	3	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratobel – Other products (level 1)



We

AGC Glass Europe
Building Division

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Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratobel**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratobel (level 1 products) characteristics in :	AVCP Systems	
1.	Resistance to fire (EN 13501-2)	1	For 13 characteristics, see www.YourGlass.com/ce
2.	Reaction to fire (EN 13501-1)	3, 4	
3.	External fire performances	3, 4	
4.	Bullet resistance (EN 1063)	1	
5.	Explosion resistance (EN 13541)	1	
6.	Burglar resistance (EN 356)	3	
7.	Pendulum body impact resistance (EN 12600)	3	
8.	Resistance against sudden temperature change and temperature differentials	4	
9.	Wind, snow, permanent and imposed load resistance	4	
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	
14.	Durability	3	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building

Stratophone



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratophone clear (22.x, 33.x)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratophone**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratophone characteristics in :	AVCP Systems	22.1	22.2	33.1	33.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	33 (-1;-5)	33 (-1;-4)	35 (-1;-3)	36 (0;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,7 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	79 / 7 / 7 82	77 / 7 / 7 81	76 / 7 / 7 80	74 / 7 / 7 79
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratophone clear (44.x)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratophone**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratophone characteristics in :	AVCP Systems	44.1	44.2	44.4	44.6
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	P3A-P4A	P5A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	37 (-0, -2)	37 (0;-2)	37 (0;-3)	38 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,6 0,89	5,6 0,89	5,5 0,89	5,3 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	88 / 8 / 8	88 / 8 / 8	88 / 8 / 8	88 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	73 / 7 / 7 78	72 / 7 / 7 77	70 / 7 / 7 75	69 / 7 / 7 74
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratophone clear (55.x, 66.x, 88.x)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratophone**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratophone characteristics in :	AVCP Systems	55.1	55.2	66.1	66.2	88.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	P1A-P2A	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	38 (-1;-3)	39 (-1;-3)	40 (-1;-3)	40 (-1;-3)	41 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,6 0,89	5,5 0,89	5,5 0,89	5,4 0,89	5,3 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	87 / 8 / 8	87 / 8 / 8	86 / 8 / 8	86 / 8 / 8	84 / 8 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	70 / 7 / 7 76	69 / 7 / 7 75	68 / 7 / 7 74	66 / 7 / 7 73	62 / 6 / 6 69
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratophone iplus Energy N



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratophone iplus Energy N**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratophone iplus Energy N characteristics in :	AVCP Systems	33.1	33.2	44.1	44.2	66.1	66.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	35 (-1;-3)	36 (0;-3)	37 (0;-3)	37 (0;-3)	40 (-1;-3)	40 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	80 / 7 / 7	80 / 7 / 7	79 / 7 / 7	79 / 7 / 7	77 / 7 / 6	77 / 7 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	40 / 41 / 26 NPD	40 / 41 / 25 NPD	39 / 41 / 24 NPD	39 / 41 / 23 NPD	38 / 41 / 20 NPD	37 / 41 / 19 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratophone iplus I-Top



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratophone iplus I-Top**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratophone iplus I-Top characteristics in :	AVCP Systems	22.1	22.2	33.1	44.1	44.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	32 (-2;-5)	33 (-1;-4)	35 (-1;-3)	37 (-0, -3)	37 (0;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	87 / 6 / 7	87 / 6 / 7	86 / 6 / 7	85 / 5 / 7	85 / 5 / 7
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	57 / 29 / 22 NPD	56 / 29 / 21 NPD	54 / 28 / 19 NPD	52 / 28 / 17 NPD	52 / 28 / 16 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratophone iplus Light



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratophone iplus Light**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratophone iplus Light characteristics in :	AVCP Systems	22.1	22.2	33.1	44.1
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	33 (-2;-5)	33 (-1;-4)	35 (-1;-3)	37 (-0, -3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	71/19/21	71/19/21	71/19/21	71/19/21
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	41/43/34 NPD	41/43/33 NPD	41/43/29 NPD	40/43/26 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratophone iplus Top 1.0



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratophone iplus Top 1.0**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratophone iplus Top 1.0 characteristics in :	AVCP Systems	22.1	22.2	33.1	33.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	33 (-2;-5)	33 (-1;-4)	35 (-1;-3)	36 (0;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	77 / 15 / 17	77 / 15 / 17	76 / 15 / 17	76 / 15 / 17
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	45 / 42 / 33 NPD	45 / 42 / 32 NPD	45 / 42 / 30 NPD	44 / 42 / 29 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
 23rd of February 2015


 E. Ceriani
 Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratophone iplus Top 1.0



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	Stratophone iplus Top 1.0 characteristics in :	AVCP Systems	44.1	44.2	66.1	66.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	37 (-0, -3)	37 (0;-3)	40 (-1;-3)	40 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	75 / 15 / 17	75 / 15 / 17	74 / 14 / 16	74 / 14 / 16
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	44 / 42 / 28 NPD	43 / 42 / 27 NPD	42 / 42 / 24 NPD	42 / 42 / 23 NPD
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
Stratophone Low-e Top N+



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stratophone Low-e Top N+**,
intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Stratophone Low-e Top N+ characteristics in :	AVCP Systems	33.1	33.2	44.1	44.2	66.1	66.2
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	35 (-1;-3)	36 (0;-3)	37 (-0, -3)	37 (0;-3)	40 (-1;-3)	40 (-1;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03	NPD 0,03
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	86 / 6 / 7	86 / 6 / 7	85 / 6 / 7	85 / 6 / 7	83 / 6 / 7	83 / 6 / 7
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	55 / 29 / 20 NPD	54 / 29 / 19 NPD	53 / 29 / 18 NPD	53 / 29 / 18 NPD	50 / 29 / 16 NPD	50 / 29 / 15 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building

Sunergy



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Sunergy Clear (annealed)



We

AGC Glass Europe
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Sunergy Clear**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Sunergy Clear characteristics in :	AVCP Systems	3 mm	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	29 (-2;-5)	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,28	NPD 0,28	NPD 0,28	NPD 0,28	NPD 0,28
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	69 / 10 / 9	69 / 10 / 9	68 / 10 / 9	67 / 10 / 8	66 / 10 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	56 / 10 / 10 62	56 / 10 / 10 61	54 / 10 / 9 60	52 / 10 / 9 59	50 / 10 / 9 57
14.	Durability	3	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Sunergy Clear Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Sunergy Clear Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Sunergy Clear Heat strengthened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,28	NPD 0,28	NPD 0,28	NPD 0,28
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	69 / 10 / 9	68 / 10 / 9	67 / 10 / 8	66 / 10 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	56 / 10 / 10 61	54 / 10 / 9 60	52 / 10 / 9 59	50 / 10 / 9 57
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Sunergy Clear Thermally toughened or Heat soaked thermally toughened



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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Sunergy Clear Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Sunergy Clear Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,28	NPD 0,28	NPD 0,28	NPD 0,28
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	69 / 10 / 9	68 / 10 / 9	67 / 10 / 8	66 / 10 / 8
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	56 / 10 / 10 61	54 / 10 / 9 60	52 / 10 / 9 59	50 / 10 / 9 57
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015

E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Sunergy Azur (annealed)



We

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	Sunergy Azur characteristics in :	AVCP Systems	4 mm	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	30 (-2;-4)	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,28	NPD 0,28	NPD 0,28	NPD 0,28
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	60 / 10 / 8	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	40 / 10 / 7 49	34 / 10 / 6 44	29 / 9 / 6 40	26 / 9 / 6 37
14.	Durability	3	PASS	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Sunergy Azur Heat strengthened



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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Sunergy Azur Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Sunergy Azur Heat strengthened characteristics in :	AVCP Systems	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,28	NPD 0,28	NPD 0,28
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	34 / 10 / 6 44	29 / 9 / 6 40	26 / 9 / 6 37
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Sunergy Azur Thermally toughened or Heat soaked thermally toughened



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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Sunergy Azur Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Sunergy Azur Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	NPD 0,28	NPD 0,28	NPD 0,28
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	34 / 10 / 6 44	29 / 9 / 6 40	26 / 9 / 6 37
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Sunergy Dark Blue (annealed)



We

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	Sunergy Dark Blue characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,1 0,28	4,1 0,28
12.	Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	3	40 / 9 / 6	35 / 9 / 6
13.	- Solar transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e - Solar factor: g	3	26 / 9 / 6 37	21 / 9 / 5 33
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Sunergy Dark Blue Heat strengthened



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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Sunergy Dark Blue Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Sunergy Dark Blue Heat strengthened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,1 0,28	4,1 0,28
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	40 / 9 / 6	35 / 9 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	26 / 9 / 6 37	21 / 9 / 5 33
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Sunergy Dark Blue Thermally toughened or Heat soaked thermally toughened



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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Sunergy Dark Blue Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Sunergy Dark Blue Thermally toughened or Heat soaked thermally toughened characteristics in	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C2	1C2
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,1 0,28	4,1 0,28
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	40 / 9 / 6	35 / 9 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	26 / 9 / 6 37	21 / 9 / 5 33
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Sunergy Green (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Sunergy Green**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Sunergy Green characteristics in :	AVCP Systems	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,1 0,28	4,1 0,28	4,0 0,28
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	31 / 9 / 6 41	26 / 9 / 6 38	22 / 9 / 5 38
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
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CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Sunergy Green Heat strengthened



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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Sunergy Green Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Sunergy Green Heat strengthened characteristics in :	AVCP Systems	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,1 0,28	4,1 0,28	4,0 0,28
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	31 / 9 / 6 41	26 / 9 / 6 38	22 / 9 / 5 38
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Sunergy Green Thermally toughened or Heat soaked thermally toughened



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Sunergy Green Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Sunergy Green Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	6 mm	8 mm	10 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1	A1
3.	External fire performances	3, 4	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C2	1C2	1C1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)	34 (-2;-3)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,1 0,28	4,1 0,28	4,0 0,28
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	31 / 9 / 6 41	26 / 9 / 6 38	22 / 9 / 5 38
14.	Durability	3	PASS	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Coated glass - EN 1096-4:2004
Declaration of performances
Sunergy Grey (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Sunergy Grey**, intended to be used in buildings and construction works, following **EN 1096-4:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Sunergy Grey characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	NPD	NPD
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,1 0,28	4,1 0,28
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	34 / 9 / 5	26 / 8 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	30 / 9 / 6 41	24 / 9 / 6 36
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Heat strengthened glass - EN 1863-2:2004
Declaration of performances
Sunergy Grey Heat strengthened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Sunergy Grey Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2:2004**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Sunergy Grey Heat strengthened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	NPD	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	100 K	100 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,1 0,28	4,1 0,28
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	34 / 9 / 5	26 / 8 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	30 / 9 / 6 41	24 / 9 / 6 36
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Thermally toughened glass - EN 12150-2:2004
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2:2005
Declaration of performances
Sunergy Grey Thermally toughened or Heat soaked thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Sunergy Grey Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2:2004 / 14179-2:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Sunergy Grey Thermally toughened or Heat soaked thermally toughened characteristics in :	AVCP Systems	6 mm	8 mm
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	A1	A1
3.	External fire performances	3, 4	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1C2	NPD
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	31 (-2;-3)	32 (-1;-2)
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	4,1 0,28	4,1 0,28
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	34 / 9 / 5	26 / 8 / 5
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	30 / 9 / 6 41	24 / 9 / 6 36
14.	Durability	3	PASS	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building

SunEwat



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
SunEwat XL 55.6 thermally toughened



We

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Building Division

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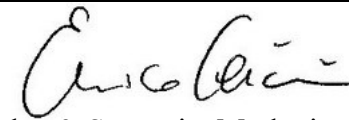
Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SunEwat XL**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

Surface covered by solar cells regarding to the surface of the glass:

	55.6 SunEwat XL characteristics in :	AVCP Systems	0 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	87/8/8	78 /8/9	70/8/9	61/8/10	52/8/11	44/8/12	35/7/12	26/7/13	17/7/14	9/7/14	0/8/15
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	66/7/7 NPD	60/7/8 NPD	53/8/9 NPD	46/8/9 NPD	40/8/10 NPD	33/9/11 NPD	26/9/12 NPD	20/9/13 NPD	13/9/13 NPD	7/10/14 NPD	0/10/15 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
19th of January 2016

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
SunEwat XL 66.6 thermally toughened



We

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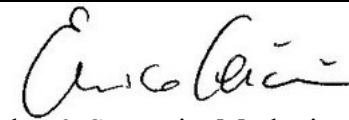
Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SunEwat XL**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

Surface covered by solar cells regarding to the surface of the glass:

	66.6 SunEwat XL characteristics in :	AVCP Systems	0 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	87/8/8	77/8/9	69/8/9	60/8/10	52/8/11	43/8/12	34/7/12	26/7/13	17/7/14	9/7/14	0/8/15
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	64/6/6 NPD	58/6/7 NPD	51/7/8 NPD	45/7/9 NPD	39/8/10 NPD	32/8/11 NPD	26/8/11 NPD	19/9/12 NPD	13/9/13 NPD	6/10/14 NPD	0/10/15 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
19th of January 2016

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
SunEwat XL 88.6 thermally toughened



We

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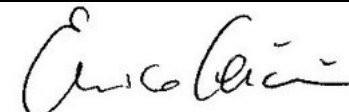
Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SunEwat XL**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

Surface covered by solar cells regarding to the surface of the glass:

	88.6 SunEwat XL characteristics in :	AVCP Systems	0 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	86/7/7	76/7/8	68/7/8	59/7/9	51/7/9	42/7/10	34/6/11	25/6/11	17/6/12	8/6/13	0/7/13
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	62/5/5 NPD	56/5/6 NPD	50/6/7 NPD	44/6/7 NPD	37/7/8 NPD	31/7/9 NPD	25/7/10 NPD	19/8/11 NPD	12/8/11 NPD	6/8/12 NPD	0/9/13 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
19th of January 2016

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Laminated glass – EN 14449:2005 + AC:2005
Declaration of performances
SunEwat XL 10 10.6 thermally toughened



We

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Building Division

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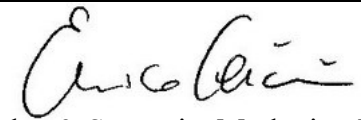
Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SunEwat XL**, intended to be used in buildings and construction works, following **EN 14449:2005 + AC:2005**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

Surface covered by solar cells regarding to the surface of the glass:

	10 10.6 SunEwat XL characteristics in :	AVCP Systems	0 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %
1.	Resistance to fire (EN 13501-2)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2.	Reaction to fire (EN 13501-1)	3, 4	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0	B-s1,d0
3.	External fire performances	3, 4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4.	Bullet resistance (EN 1063)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5.	Explosion resistance (EN 13541)	1	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6.	Burglar resistance (EN 356)	3	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7.	Pendulum body impact resistance (EN 12600)	3	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8.	Resistance against sudden temperature change and temperature differentials	4	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9.	Wind, snow, permanent and imposed load resistance	4	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89	5,3 0,89
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	85/7/7	74/7/8	66/7/8	58/7/9	49/7/9	41/7/10	33/6/11	25/6/11	16/6/12	8/6/13	0/7/13
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	59/5/5 NPD	53/5/6 NPD	47/6/7 NPD	41/6/7 NPD	35/7/8 NPD	29/7/9 NPD	23/7/10 NPD	18/8/11 NPD	12/8/11 NPD	6/8/12 NPD	0/9/13 NPD
14.	Durability	3	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Louvain-la-Neuve
19th of January 2016

E. Ceriani 
Primary Sales & Strategic, Marketing Director, Building

Thermally toughened glass for Shower enclosure



**CE Marking of Thermally toughened glass for Shower enclosure
EN 14428**
Planibel Thermally toughened for shower enclosure



We

**AGC Glass Europe
Building Division**

Avenue Jean Monnet 4 - 1348 Louvain-la-Neuve - Belgium
Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Thermally toughened**, intended to be used in Shower enclosure, following **EN 14428**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

Planibel Thermally toughened characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm
Cleanability	Pass				
Impact resistance / Shatter properties	Pass				
Durability	Pass				

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building

Thermobel



CE Marking of Insulating glass unit - EN 1279-5:2005 + A2:2010
Declaration of performances
Thermobel (level 3 products)



We

AGC Glass Europe
Building Division

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Thermobel**, intended to be used in buildings and construction works, following **EN 1279-5:2005 + A2:2010**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Thermobel (level 3 products) characteristics in :	AVCP Systems	For 13 characteristics, see www.YourGlass.com/ce
1.	Resistance to fire (EN 13501-2)	1	
2.	Reaction to fire (EN 13501-1)	3, 4	
3.	External fire performances	3, 4	
4.	Bullet resistance (EN 1063)	1	
5.	Explosion resistance (EN 13541)	1	
6.	Burglar resistance (EN 356)	3	
7.	Pendulum body impact resistance (EN 12600)	3	
8.	Resistance against sudden temperature change and temperature differentials	4	
9.	Wind, snow, permanent and imposed load resistance	4	
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	
14.	Durability	3	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building



CE Marking of Insulating glass unit - EN 1279-5:2005 + A2:2010
Declaration of performances
Thermobel (level 1 products)



We

AGC Glass Europe
Building Division

Avenue Jean Monnet 4 - 1348 Louvain-la-Neuve - Belgium
Tel.: +32 - (0) 2 409.30.00 - Fax: +32 - (0) 2 672.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Thermobel**, intended to be used in buildings and construction works, following **EN 1279-5:2005 + A2:2010**

NB 0074 0336 0402 0432 0474 0497 0589 0620 0672 0679 0749 0757 0761 0833 1080 1121 1136 1154 1173 1174 1234 1314 1322 1343 1390 1391 1394 1396 1488 1643 1694 1717 1750 1812 2531

	Thermobel (level 1 products) characteristics in :	AVCP Systems	
1.	Resistance to fire (EN 13501-2)	1	For 13 characteristics, see www.YourGlass.com/ce
2.	Reaction to fire (EN 13501-1)	3, 4	
3.	External fire performances	3, 4	
4.	Bullet resistance (EN 1063)	1	
5.	Explosion resistance (EN 13541)	1	
6.	Burglar resistance (EN 356)	3	
7.	Pendulum body impact resistance (EN 12600)	3	
8.	Resistance against sudden temperature change and temperature differentials	4	
9.	Wind, snow, permanent and imposed load resistance	4	
10.	Direct airborne sound reduction (EN 12758): R_w (C;Ctr)	3	
11.	- U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	3	
12.	Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	3	
13.	- Solar transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$ - Solar factor: g	3	
14.	Durability	3	PASS

Louvain-la-Neuve
23rd of February 2015


E. Ceriani
Primary Sales & Strategic, Marketing Director, Building

Translations

English → Bulgarian (български)

CE Marking	СЕ маркировка
Characteristics	Характеристики
Resistance to fire	Пожароустойчивост
Reaction to fire	Реакция към огън
External fire performance	Външна пожароустойчивост
Bullet resistance	Куршумоустойчивост
Explosion resistance	Взривоустойчивост
Burglar resistance	Устойчивост на вандализъм
Pendulum body impact resistance	Устойчивост на удар от движещи се тела
Resistance against sudden temperature changes and temperature differentials	Устойчивост на резки температурни промени и температурни разлики
Wind, snow, permanent and imposed load resistance	Устойчивост на вятър, сняг, постоянно или временно натоварване
Direct airborne sound insulation	Редукция на звуци, предавани директно по въздух
Thermal properties	Термални характеристики
Emissivity	Емисивитет
U-value	U-фактор
Radiation properties	Радиационни характеристики
Light transmission	Светлопреминаване
Light reflection	Отразяване на светлина
Solar energy transmission	Прминаване на слънчева енергия
Solar energy reflection	Отразяване на слънчева енергия

Basic soda lime silicate float glass	Флоатно стъкло
Basic soda lime silicate patterned glass	Орнаментно стъкло
Basic soda lime silicate wired patterned glass	Орнаментно армирано стъкло
Coated glass	Стъкло с покритие
Thermally toughened soda lime silicate safety glass	Термично закалено флоатно безопасно стъкло
Heat soaked Thermally toughened soda lime silicate safety glass	Термично закалено флоатно стъкло с "heat soak" тест
Heat strengthened soda lime silicate glass	Топлинно заздравено флоатно стъкло
Insulating glass units	Изолиращи елементи
Laminated glass and laminated safety glass	Ламинирано стъкло и ламинирано безопасно стъкло
Fire resistant glass	Пожароустойчиво стъкло

English → čeština

CE Marking	CE značení
Characteristics	Vlastnosti
Resistance to fire	Požární odolnost
Reaction to fire	Reakce na oheň
External fire performance	Ukazatel odolnosti proti vnějšímu požáru
Bullet resistance	Odolnost proti průstřelu
Explosion resistance	Odolnost proti výbuchu
Burglar resistance	Odolnost proti násilnému vniknutí
Pendulum body impact resistance	Odolnost proti kyvadlovému nárazu
Resistance against sudden temperature changes and temperature differentials	Odolnost proti náhlým změnám teploty a teplotním rozdílům
Wind, snow, permanent and imposed load resistance	Odolnost proti zatížení větrem, sněhem, trvalému a užitnému zatížení
Direct airborne sound insulation	Přímá vzduchová neprůzvučnost
Thermal properties	Tepelné vlastnosti
Emissivity	Emisivita
U-value	Součinitel prostupu tepla U, Ug
Radiation properties	Světelné vlastnosti
Light transmission	Světelný činitel prostupu
Light reflection	Světelný činitel odrazu
Solar energy transmission	Činitel prostupu přímého slunečního záření
Solar energy reflection	Činitel odrazu přímého slunečního záření

Basic soda lime silicate float glass	Základní sodnovápenatokřemičité sklo float
Basic soda lime silicate patterned glass	Základní sodnovápenatokřemičité vzorované sklo
Basic soda lime silicate wired patterned glass	Základní sodnovápenatokřemičité vzorované sklo s drátěnou vložkou
Coated glass	Sklo s povlakem
Thermally toughened soda lime silicate safety glass	Tepelně tvrzené sodnovápenatokřemičité bezpečnostní sklo
Heat soaked Thermally toughened soda lime silicate safety glass	Tepelně tvrzené prohřívávané sodnovápenatokřemičité bezpečnostní sklo (HST)
Heat strengthened soda lime silicate glass	Tepelně zpevněné sodnovápenatokřemičité sklo
Insulating glass units	Izolační skla
Laminated glass and laminated safety glass	Vrstvená skla a vrstvená bezpečnostní skla
Fire resistant glass	Protipožární sklo

English → Dansk

CE Marking	CE mærkning
Characteristics	Karakteristik
Resistance to fire	Modstand mod brand
Reaction to fire	Reaktion ved brand
External fire performance	Ekstern brandmodstand
Bullet resistance	Modstand mod skud
Explosion resistance	Modstand mod eksplosion
Burglar resistance	Modstand mod indbrud
Pendulum body impact resistance	Pendultest (personsikkerhed)
Resistance against sudden temperature changes and temperature differentials	Modstand mod pludselige temperatursvingninger og temperaturgradienter
Wind, snow, permanent and imposed load resistance	Vind-, sne- og langtidslast
Direct airborne sound insulation	Direkte luftbåren Lydreduktion
Thermal properties	Varmeisolering
Emissivity	Emissivitet
U-value	U-værdi
Radiation properties	Strålingsegenskaber
Light transmission	Sollystransmittans
Light reflection	Sollysreflektans
Solar energy transmission	Solenergitransmittans
Solar energy reflection	Solenergireflektans

Basic soda lime silicate float glass	Kalk-soda-silikat floatglas
Basic soda lime silicate patterned glass	Kalk-soda-silikat ornament glas
Basic soda lime silicate wired patterned glass	Kalk-soda-silikat ornament trådglass
Coated glass	Belagt glas
Thermally toughened soda lime silicate safety glass	Termisk hærdet glas
Heat soaked Thermally toughened soda lime silicate safety glass	Heat soaked termisk hærdet kalk-soda-silikat glas
Heat strengthened soda lime silicate glass	Varmedeforstærket glas
Insulating glass units	Termoruder
Laminated glass and laminated safety glass	Lamineret glas og lamineret sikkerhedsglas
Fire resistant glass	Brandbeskyttende glas

English → Deutsch

CE Marking	CE Kennzeichnung
Characteristics	Eigenschaften
Resistance to fire	Feuerwiderstand
Reaction to fire	Brandverhalten
External fire performance	Verhalten bei Beanspruchung durch Feuer von außen
Bullet resistance	Durchschusshemmung
Explosion resistance	Sprengwirkungshemmung
Burglar resistance	Einbruchhemmung
Pendulum body impact resistance	Pendelschlagwiderstand
Resistance against sudden temperature changes and temperature differentials	Beständigkeit gegen plötzliche Temperaturwechsel und Temperaturunterschiede
Wind, snow, permanent and imposed load resistance	Widerstand gegen Schnee-, Wind-, Dauerlasten bzw. sonstige Lasten
Direct airborne sound insulation	Direkte Luftschalldämmung
Thermal properties	Thermische Eigenschaften
Emissivity	Emissivität
U-value	U-Wert
Radiation properties	Strahlungsphysikalische Eigenschaften
Light transmission	Lichttransmission
Light reflection	Lichtreflexion
Solar energy transmission	Energietransmission
Solar energy reflection	Energier Reflexion

Basic soda lime silicate float glass	Gefloatetes Natronkalk-Silicatglas
Basic soda lime silicate patterned glass	Ornamentglas aus Natronkalk-Silicatglas
Basic soda lime silicate wired patterned glass	Drahtornamentglas aus Natronkalk-Silicatglas
Coated glass	Beschichtetes Glas
Thermally toughened soda lime silicate safety glass	Thermisch vorgespanntes Kalknatron-Einscheibensicherheitsglas
Heat soaked Thermally toughened soda lime silicate safety glass	Heißgelagertes thermisch vorgespanntes Kalknatron-Einscheibensicherheitsglas
Heat strengthened soda lime silicate glass	Teilvorgespanntes Kalknatronglas
Insulating glass units	Isolierglas
Laminated glass and laminated safety glass	Verbundglas und Verbundsicherheitsglas
Fire resistant glass	Feuerbeständiges Glas

English → eesti keel

CE Marking	CE märgistus
Characteristics	Omadused
Resistance to fire	Tulekindlus
Reaction to fire	Põlevus
External fire performance	Vastupidavus välisele tulele
Bullet resistance	Kuulikindlus
Explosion resistance	Plahvatuskindlus
Burglar resistance	Vandalismikindlus
Pendulum body impact resistance	Vastupidavus pehme keha löögile (pendeltest)
Resistance against sudden temperature changes and temperature differentials	Vastupidavus järskudele temperatuurimuutustele ja temperatuuri erinevustele
Wind, snow, permanent and imposed load resistance	Vastupidavus tuule-, lume-, püsi- ja kasuskoormusele
Direct airborne sound insulation	Otsene õhuheli isolatsioon
Thermal properties	Soojuslikud omadused
Emissivity	Emissiivsus
U-value	U-väärtus
Radiation properties	Kiirguslikud omadused
Light transmission	Valguse läbivus
Light reflection	Valguse peegeldus
Solar energy transmission	Päikeseenergia läbivus
Solar energy reflection	Päikeseenergia peegeldus

Basic soda lime silicate float glass	Lubi-liiv-floatklaas
Basic soda lime silicate patterned glass	Lubi-liiv-ornamentklaas
Basic soda lime silicate wired patterned glass	Sarrustatud Lubi-liiv-ornamentklaas
Coated glass	Pindkatttega klaas
Thermally toughened soda lime silicate safety glass	Termiliselt karastatud lubi-liiv-turvaklaas
Heat soaked Thermally toughened soda lime silicate safety glass	Heat soaked termiliselt karastatud lubi-liiv-turvaklaas
Heat strengthened soda lime silicate glass	Termiliselt tugevdatud lubiliivklaas
Insulating glass units	Klaaspakett
Laminated glass and laminated safety glass	Lamineeritud klaas ja lamineeritud turvaklaas
Fire resistant glass	Tuletõkkeklaas

English → ελληνικά

CE Marking	Σημα CE
Characteristics	Χαρακτηριστικά
Resistance to fire	Αντίσταση στην φωτιά
Reaction to fire	Αντίδραση στην φωτιά
External fire performance	Επίδοση σε εξωτερική φωτιά
Bullet resistance	Αντίσταση σε σφαίρα
Explosion resistance	Αντίσταση σε εκρηξη
Burglar resistance	Αντίσταση σε διάρρηξη
Pendulum body impact resistance	Αντίσταση σε κρούση εκκρεμών αντικειμένων
Resistance against sudden temperature changes and temperature differentials	Αντίσταση κατά ξαφνικών αλλαγών θερμοκρασίας και διαφορών θερμοκρασιών
Wind, snow, permanent and imposed load resistance	Μονιμή και επιβαλλόμενη αντίσταση σε ανεμοπίεση και πίεση χιονιού
Direct airborne sound insulation	Μόνωση κατά απευθείας αερομεταφερομένου θορύβου
Thermal properties	Θερμικές ιδιότητες
Emissivity	Εκπομπή
U-value	Συντελεστής θερμοαγωγιμότητας
Radiation properties	Ιδιότητες ακτινοβολίας
Light transmission	Μεταδοση φωτός
Light reflection	Αντανάκλαση φωτός
Solar energy transmission	Μεταδοση ηλιακής ενέργειας
Solar energy reflection	Αντανάκλαση ηλιακής ενέργειας

Basic soda lime silicate float glass	Βασικό γυαλί σόδας
Basic soda lime silicate patterned glass	Βασικό εκτυπωμένο γυαλί σόδας (διαμαντέ)
Basic soda lime silicate wired patterned glass	Βασικό εκτυπωμένο γυαλί σόδας με σύρμα
Coated glass	Επιστρωμένος υαλοπίνακας
Thermally toughened soda lime silicate safety glass	Θερμικά σκληρημένο βασικό γυαλί σόδας ασφαλείας
Heat soaked Thermally toughened soda lime silicate safety glass	Θερμικά εμποτισμένου σκληρημένου βασικού γυαλιού σόδας ασφαλείας
Heat strengthened soda lime silicate glass	Θερμικά ενισχυμένο βασικό γυαλί σόδας
Insulating glass units	Διπλοί μονωτικοί υαλοπίνακες
Laminated glass and laminated safety glass	Λαμιναρισμένος υαλοπίνακας και λαμιναρισμένος υαλοπίνακας ασφαλείας
Fire resistant glass	Πυράντοχος υαλοπίνακας

English → español

CE Marking	Marcado CE
Characteristics	Características
Resistance to fire	Resistencia al fuego
Reaction to fire	Reacción al fuego
External fire performance	Prestaciones de comportamiento frente a fuego exterior
Bullet resistance	Resistencia a las balas
Explosion resistance	Resistencia a las explosiones
Burglar resistance	Resistencia a la agresión
Pendulum body impact resistance	Resistencia al impacto de cuerpo pendular
Resistance against sudden temperature changes and temperature differentials	Resistencia a variaciones bruscos de temperatura y a temperaturas diferenciales
Wind, snow, permanent and imposed load resistance	Resistencia a las cargas de viento y nieve, y a las cargas permanentes e impuestas
Direct airborne sound insulation	Aislamiento al ruido aéreo directo
Thermal properties	Propiedades térmicas
Emissivity	Emisividad
U-value	Valor U
Radiation properties	Propiedades ante la radiación
Light transmission	Transmisión luminosa
Light reflection	Reflexión luminosa
Solar energy transmission	Transmisión de la energía solar
Solar energy reflection	Reflexión de la energía solar

Basic soda lime silicate float glass	Vidrio flotado de base silicato sodo-cálcico
Basic soda lime silicate patterned glass	Vidrio impreso de base silicato sodo-cálcico
Basic soda lime silicate wired patterned glass	Vidrio impreso armado de base silicato sodo-cálcico
Coated glass	Vidrio de capa
Thermally toughened soda lime silicate safety glass	Vidrio de silicato sodo-cálcico de seguridad templado térmicamente
Heat soaked Thermally toughened soda lime silicate safety glass	Vidrio de silicato sodo-cálcico de seguridad templado y con tratamiento Heat Soak
Heat strengthened soda lime silicate glass	Vidrio de silicato sodo-cálcico de seguridad termoendurecido
Insulating glass units	Unidad de vidrio aislante
Laminated glass and laminated safety glass	Vidrio laminado y vidrio laminado de seguridad
Fire resistant glass	Vidrio resistente al fuego

English → français

CE Marking	Marquage CE
Characteristics	Caractéristiques
Resistance to fire	Résistance au feu
Reaction to fire	Réaction au feu
External fire performance	Performances de comportement vis-à-vis d'un feu extérieur
Bullet resistance	Résistance aux balles
Explosion resistance	Résistances aux explosions
Burglar resistance	Résistance aux effractions
Pendulum body impact resistance	Résistance à l'impact d'un pendule
Resistance against sudden temperature changes and temperature differentials	Résistances aux variations brutales de température et aux températures différentielles
Wind, snow, permanent and imposed load resistance	Résistance aux charges dues au vent et à la neige, aux charges permanentes et imposées
Direct airborne sound insulation	Isolation au bruit aérien direct
Thermal properties	Propriétés thermiques
Emissivity	Emissivité
U-value	Coefficient U
Radiation properties	Propriétés de rayonnement
Light transmission	Transmission lumineuse
Light reflection	Réflexion lumineuse
Solar energy transmission	Transmission du rayonnement solaire
Solar energy reflection	Reflexion du rayonnement solaire

Basic soda lime silicate float glass	Verre float de silicate sodo-calcique de base
Basic soda lime silicate patterned glass	Verre imprimé de silicate sodo-calcique de base
Basic soda lime silicate wired patterned glass	Verre imprimé armé de silicate sodo-calcique de base
Coated glass	Verre à couche
Thermally toughened soda lime silicate safety glass	Verre de silicate sodo-calcique de sécurité trempé thermiquement
Heat soaked Thermally toughened soda lime silicate safety glass	Verre de silicate sodo-calcique de sécurité trempé et traité Heat Soak
Heat strengthened soda lime silicate glass	Verre de silicate sodo-calcique durci thermiquement
Insulating glass units	Vitrage isolant préfabriqué scellé
Laminated glass and laminated safety glass	Verre feuilleté et verre feuilleté de sécurité
Fire resistant glass	Verre résistant au feu

English → Italiano

CE Marking	Marcatura CE
Characteristics	Caratteristiche
Resistance to fire	Resistenza al fuoco
Reaction to fire	Reazione al fuoco
External fire performance	Resistenza al fuoco proveniente dall'esterno
Bullet resistance	Resistenza ai proiettili
Explosion resistance	Resistenza all' esplosione
Burglar resistance	Resistenza agli attacchi manuali
Pendulum body impact resistance	Resistenza agli urti (Prova del pendolo)
Resistance against sudden temperature changes and temperature differentials	Resistenza agli sbalzi improvvisi di temperatura e alle differenze di temperatura
Wind, snow, permanent and imposed load resistance	Resistenza a carichi di vento, neve e ai carichi permanti
Direct airborne sound insulation	Isolamento al rumore aereo diretto
Thermal properties	Proprietà termiche
Emissivity	Emissività
U-value	Valore U
Radiation properties	Proprietà di irraggiamento
Light transmission	Trasmissione luminosa
Light reflection	Riflessione luminosa
Solar energy transmission	Trasmissione energetica diretta
Solar energy reflection	Riflessione energetica

Basic soda lime silicate float glass	Prodotti di base di vetro di silicato sodo-calcico Vetro float
Basic soda lime silicate patterned glass	Prodotti di base di vetro di silicato sodo-calcico Vetro stampato
Basic soda lime silicate wired patterned glass	Prodotti di base di vetro di silicato sodo-calcico Vetro stampato armato
Coated glass	Vetri rivestiti
Thermally toughened soda lime silicate safety glass	Vetro di silicato sodo-calcico di sicurezza temprato termicamente
Heat soaked Thermally toughened soda lime silicate safety glass	Vetro di silicato sodo-calcico di sicurezza temprato e trattato Heat Soak
Heat strengthened soda lime silicate glass	Vetro di silicato sodo-calcico di indurito termicamente
Insulating glass units	Vetrate isolanti
Laminated glass and laminated safety glass	Vetro stratificato e vetro stratificato di sicurezza
Fire resistant glass	Vetro resistente al fuoco

English → latviešu valoda

CE Marking	Eiropas Padomes(EP) Marķējums
Characteristics	Raksturīgās īpašības
Resistance to fire	Ugunsizturīgs
Reaction to fire	Reaģē ar uguni
External fire performance	Ārējās uguns veiktspēja(izolācijas spēja)
Bullet resistance	Ložu necaurlaidīgs
Explosion resistance	Izturīgs pret eksploziju
Burglar resistance	Izturīgs pret ielaušanos un huligānismu
Pendulum body impact resistance	Izturīgs pret krītošu ķermeņu triecienus
Resistance against sudden temperature changes and temperature differentials	Izturīgs pret krasām temperatūras svārstībām un temperatūras atšķirībām
Wind, snow, permanent and imposed load resistance	Iztur vēja, sniega, pastāvīgas un īslaicīgas(pēkšņas) slodzes.
Direct airborne sound insulation	Tiešu aviācijas trokšņu izolācija
Thermal properties	Termiskās īpašības
Emissivity	Caurstarojums
U-value	Siltumcaurlaidības koeficienta U vērtība.
Radiation properties	Starojuma īpašības
Light transmission	Gaismas caurlaidība
Light reflection	Gaismas atstarošana
Solar energy transmission	Saules enerģijas caurlaidība
Solar energy reflection	Saules enerģijas atstarošana

Basic soda lime silicate float glass	Nātrija-kalcija silikātu float stikls
Basic soda lime silicate patterned glass	Nātrija-kalcija silikātu dekoratīvais stikls
Basic soda lime silicate wired patterned glass	Nātrija-kalcija silikātu dekoratīvais stikls ar stiebrojumu
Coated glass	Pārklāts stikls
Thermally toughened soda lime silicate safety glass	Termiski rūdīts nātrija-kalcija silikātu drošības stikls
Heat soaked Thermally toughened soda lime silicate safety glass	Karstumā testēts (Heat-Soak test) termiski rūdīts nātrija-kalcija silikātu drošības stikls
Heat strengthened soda lime silicate glass	Termiski stiprināts nātrija-kalcija silikātu drošības stikls
Insulating glass units	Stikla pakete
Laminated glass and laminated safety glass	Laminēts stikls un laminēts aizsargstikls
Fire resistant glass	Ugunsizturīgs stikls

English → lietuvių kalba

CE Marking	CE žymėjimas
Characteristics	Charakteristikos
Resistance to fire	Atsparumas ugniai
Reaction to fire	Sąveika su ugnimi
External fire performance	Išorinės ugnies charakteristikos
Bullet resistance	Atsparumas šūviams
Explosion resistance	Atsparumas sproginams
Burglar resistance	Atsparumas įsilaužimams
Pendulum body impact resistance	Atsparumas kintančiam kūnų poveikiui
Resistance against sudden temperature changes and temperature differentials	Atsparumas staigiam temperatūrų pasikeitimui ir temperatūrų skirtumams
Wind, snow, permanent and imposed load resistance	Atsparumas vėjo, sniego, pastovioms ir staigioms apkrovoms
Direct airborne sound insulation	Oru sklindančio garso izoliacija
Thermal properties	Šiluminės savybės
Emissivity	Emisija
U-value	U-reikšmė, šiluminio pralaidumo koeficientas
Radiation properties	Radiacinės savybės
Light transmission	Šviesos pralaidumas
Light reflection	Šviesos atspindėjimas
Solar energy transmission	Saulės energijos perdavimas
Solar energy reflection	Saulės energijos atspindėjimas

Basic soda lime silicate float glass	Plokščias kalcio natrio silikatinis stiklas
Basic soda lime silicate patterned glass	Raštuotas kalcio natrio silikatinis stiklas
Basic soda lime silicate wired patterned glass	Armuotas raštuotas kalcio natrio silikatinis stiklas
Coated glass	Stiklas su danga
Thermally toughened soda lime silicate safety glass	Terminiškai grūdintas kalcio natrio silikatinis stiklas
Heat soaked Thermally toughened soda lime silicate safety glass	Terminiškai grūdintas ir karščių (HST) testuotas saugus kalcio natrio silikatinis stiklas
Heat strengthened soda lime silicate glass	Karščių sustiprintas kalcio natrio silikatinis stiklas
Insulating glass units	Stiklo paketas
Laminated glass and laminated safety glass	Laminuotas stiklas ir saugus laminuotas stiklas
Fire resistant glass	Ugniai atsparus stiklas

English → Magyar

CE Marking	CE-jelölés
Characteristics	tulajdonságok
Resistance to fire	tűzállóság
Reaction to fire	éghetőség
External fire performance	jellemzők kültéri tűz esetén
Bullet resistance	golyóállóság
Explosion resistance	robbanás-ellenállás
Burglar resistance	betörés- ellenállás
Pendulum body impact resistance	ingaütés-ellenás
Resistance against sudden temperature changes and temperature differentials	ellenállás a hirtelen hőmérsékletváltozásnak és nagy mértékű hőmérséklet különbségnek
Wind, snow, permanent and imposed load resistance	szél, hó, folytonos és ráhelyezett teherbírás
Direct airborne sound insulation	direkt léghanggátlás
Thermal properties	termikus tulajdonságok
Emissivity	emisszivitás
U-value	U-érték
Radiation properties	sugárzás
Light transmission	fényáteresztés
Light reflection	fényvisszaverés
Solar energy transmission	energia áteresztés
Solar energy reflection	energia visszaverés
g-value	g-érték

Basic soda lime silicate float glass	float üveg
Basic soda lime silicate patterned glass	katedrál üveg
Basic soda lime silicate wired patterned glass	drót üveg
Coated glass	bevonatos üveg
Thermally toughened soda lime silicate safety glass	edzett üveg
Heat soaked Thermally toughened soda lime silicate safety glass	"heat-soak" tesztel edzett biztonsági üveg
Heat strengthened soda lime silicate glass	előfeszített üveg
Insulating glass units	hőszigetelő üveg
Laminated glass and laminated safety glass	ragasztott és ragasztott biztonsági üveg
Fire resistant glass	tűzálló üveg

English → Nederlands

CE Marking	CE markering
Characteristics	Karakteristieken
Resistance to fire	Brandwering
Reaction to fire	Reactie op brand
External fire performance	Gedrag ten opzichte van uitwendige vuurhaard
Bullet resistance	Kogelwering
Explosion resistance	Explosiewering
Burglar resistance	Inbraakwering
Pendulum body impact resistance	Slingerproefweerstand
Resistance against sudden temperature changes and temperature differentials	Weerstand tegen plotse temperatuursverandering en temperatuursverschillen
Wind, snow, permanent and imposed load resistance	Weerstand tegen wind-, sneeuw- en permanente belasting
Direct airborne sound insulation	Directe luchtgeluidisolatie
Thermal properties	Thermische eigenschappen
Emissivity	Emissiviteit
U-value	U-waarde
Radiation properties	Stralingseigenschappen
Light transmission	Lichttransmissie
Light reflection	Lichtreflectie
Solar energy transmission	Zontoetreding
Solar energy reflection	Zonreflectie

Basic soda lime silicate float glass	Basisnatronkalk floatglas
Basic soda lime silicate patterned glass	Basisnatronkalk figuurglas
Basic soda lime silicate wired patterned glass	Basisnatronkalk figuurdraadglas
Coated glass	Gecoat glas
Thermally toughened soda lime silicate safety glass	Thermisch gehard natronkalkveiligheidsglas
Heat soaked Thermally toughened soda lime silicate safety glass	Thermisch gehard natronkalk veiligheidsglas met heat soak test
Heat strengthened soda lime silicate glass	Thermisch versterkt natronkalkglas
Insulating glass units	Isolerend dubbel glas (IDG)
Laminated glass and laminated safety glass	Gelaagd glas en gelaagd veiligheidsglas
Fire resistant glass	Brandwerend glas

English → Norks

CE Marking	CE merking
Characteristics	Betegnende
Resistance to fire	Brannhemmende
Reaction to fire	Reaksjon mot brann
External fire performance	Ekstern brannmotstand
Bullet resistance	Skuddhemmende
Explosion resistance	Eksplsjonshemmende
Burglar resistance	Innbruddshemmende
Pendulum body impact resistance	Pendultest(personsikkerhet)
Resistance against sudden temperature changes and temperature differentials	Motstand mot plutselige tempratursvingninger og tempraturforskjeller
Wind, snow, permanent and imposed load resistance	Vind-,Snø- og varig ilagt belastningsmotstand
Direct airborne sound insulation	Direkte luftbåren lydisolasjon
Thermal properties	Isoleringsegenskaper
Emissivity	Emissivitet
U-value	U-Verdi
Radiation properties	Strålingsegenskaper
Light transmission	Sollys transmisjon
Light reflection	Sollys refleksjon
Solar energy transmission	Solenergi transmisjon
Solar energy reflection	Solenergi refleksjon

Basic soda lime silicate float glass	Kalk-soda-silikat floatglass
Basic soda lime silicate patterned glass	Kalk-soda-silikat ornament glass
Basic soda lime silicate wired patterned glass	Kalk-soda-silikat ornament trådglass
Coated glass	Belagt glass
Thermally toughened soda lime silicate safety glass	Termisk herdet glass
Heat soaked Thermally toughened soda lime silicate safety glass	Heat soaked termisk herdet kalk-soda-silikat glass
Heat strengthened soda lime silicate glass	Varmeforsterket glass
Insulating glass units	Isoler glass
Laminated glass and laminated safety glass	Laminert glass og laminert sikkerhetsglass
Fire resistant glass	Brannbeskyttende glass

English → polski

CE Marking	Oznakowanie CE
Characteristics	Właściwości
Resistance to fire	Odporność na ogień
Reaction to fire	Reakcja na ogień
External fire performance	Zachowanie w przypadku pożaru
Bullet resistance	Odporność na uderzenie pocisku
Explosion resistance	Odporność na siłę eksplozji
Burglar resistance	Odporność na włamanie
Pendulum body impact resistance	Odporność na uderzenie wahadłem
Resistance against sudden temperature changes and temperature differentials	Odporność na nagłe zmiany temperatury oraz różnice temperatur
Wind, snow, permanent and imposed load resistance	Odporność na siłę wiatru, napór śniegu oraz stałe i przyłożone obciążenia
Direct airborne sound insulation	Izolacja akustyczna
Thermal properties	Właściwości termiczne
Emissivity	Emisyjność
U-value	Współczynnik U
Radiation properties	Właściwości w zakresie promieniowania
Light transmission	Przepuszczalność światła
Light reflection	Odbicie światła
Solar energy transmission	Przepuszczalność energii promieniowania słonecznego
Solar energy reflection	Odbicie energii promieniowania słonecznego

Basic soda lime silicate float glass	Podstawowe wyroby ze szkła float sodowo-wapniowo-krzemianowego
Basic soda lime silicate patterned glass	Podstawowe wyroby ze szkła wzorzystego walcowanego sodowo-wapniowo-krzemianowego
Basic soda lime silicate wired patterned glass	Podstawowe wyroby ze szkła wzorzystego zbrojonego sodowo-wapniowo-krzemianowego
Coated glass	Szkło powlekane
Thermally toughened soda lime silicate safety glass	Termicznie hartowane bezpieczne szkło sodowo-wapniowo-krzemianowe
Heat soaked Thermally toughened soda lime silicate safety glass	Wygryzewane termicznie hartowane bezpieczne szkło sodowo-wapniowo-krzemianowe
Heat strengthened soda lime silicate glass	Cieplnie wzmocnione szkło sodowo-wapniowo-krzemianowe
Insulating glass units	Szyby zespolone izolacyjne
Laminated glass and laminated safety glass	Szkło warstwowe i bezpieczne szkło warstwowe
Fire resistant glass	Szkło ognioodporne

English → Romanian

CE Marking	marcaj CE
Characteristics	caracteristici
Resistance to fire	rezistentă la foc
Reaction to fire	reactia la foc
External fire performance	comportare la un foc exterior
Bullet resistance	rezistentă la glont
Explosion resistance	rezistentă la explozie
Burglar resistance	rezistentă la efracție
Pendulum body impact resistance	rezistentă la impactul cu un pendul
Resistance against sudden temperature changes and temperature differentials	rezistentă la variații bruste de temperatură și la diferențe de temperatură
Wind, snow, permanent and imposed load resistance	rezistentă la încărcări datorate vântului și zăpezii și la încărcări permanente și impuse
Direct airborne sound insulation	atenuare fonică - izolare la zgomot aerian
Thermal properties	proprietăți termice
Emissivity	emisivitate
U-value	valoare U
Radiation properties	proprietăți de radiație
Light transmission	transmisia luminii
Light reflection	reflexia luminii
Solar energy transmission	transmisia energiei solare
Solar energy reflection	reflexia energiei solare

Basic soda lime silicate float glass	sticlă float calco-sodica
Basic soda lime silicate patterned glass	sticlă ornament calco-sodica
Basic soda lime silicate wired patterned glass	sticlă armată calco-sodica
Coated glass	sticlă cu peliculă
Thermally toughened soda lime silicate safety glass	sticlă calco-sodica, de siguranță, securizată
Heat soaked Thermally toughened soda lime silicate safety glass	sticlă calco-sodica, de siguranță, securizată, cu efectuarea testului de depistare a sulfurii de nichel
Heat strengthened soda lime silicate glass	sticlă calco-sodica, calită (semi-securizată)
Insulating glass units	vitraj izolanț
Laminated glass and laminated safety glass	sticlă stratificată, sticlă stratificată de siguranță
Fire resistant glass	sticlă rezistentă la foc

English → português

CE Marking	
Characteristics	
Resistance to fire	Resistência ao fogo
Reaction to fire	Reacção ao fogo
External fire performance	Prestações de comportamento frente ao fogo exterior
Bullet resistance	Resistência a bala
Explosion resistance	Resistência a explosão
Burglar resistance	Resistência a agressão
Pendulum body impact resistance	Resistência ao impacto do corpo pendular
Resistance against sudden temperature changes and temperature differentials	Resistência as variações bruscas de temperatura e diferenciais termicos
Wind, snow, permanent and imposed load resistance	Resistência á pressão do vento e neve e ás cargas permanentes impostas
Direct airborne sound insulation	Isolamento ao ruído aéreo directo
Thermal properties	Propriedades térmicas
U-value	Coeficiente Ug
Light transmission	Transmissão luminosa
Light reflection	Reflexão luminosa
Solar energy transmission	Transmissão da energia solar
Solar energy reflection	Reflexão da energia solar

Basic soda lime silicate float glass	Vidro á base de silico-sódico calcio
Coated glass	Vidro de capa
Thermally toughened soda lime silicate safety glass	Vidro de segurança temperado
Heat soaked Thermally toughened soda lime silicate safety glass	Vidro de segurança temperado e com tratamento Heat Soak Test
Heat strengthened soda lime silicate glass	Vidro termo-endurecido
Insulating glass units	Unidade de vidro duplo
Laminated glass and laminated safety glass	Vidro laminado e vidro laminado de segurança

English → slovenčina

CE Marking	Označenie CE
Characteristics	Vlastnosti
Resistance to fire	Odolnosť voči ohňu
Reaction to fire	Reakcia na oheň
External fire performance	Správanie sa voči vonkajšiemu ohňu
Bullet resistance	Nepriestrelnosť
Explosion resistance	Odolnosť voči výbuchu
Burglar resistance	Odolnosť voči vlámaniu
Pendulum body impact resistance	Odolnosť voči nárazu kyvadla
Resistance against sudden temperature changes and temperature differentials	Odolnosť voči náhlym teplotným zmenám a teplotným rozdielom
Wind, snow, permanent and imposed load resistance	Odolnosť voči vetru, snehu a trvalému a náhodilému zaťaženiu
Direct airborne sound insulation	Priama vzduchová nepriezvučnosť
Thermal properties	Tepelné vlastnosti
Emissivity	Emisivita
U-value	K-hodnota
Radiation properties	Vlastnosti ohľadom žiarenia
Light transmission	Prestup svetla
Light reflection	Odraz svetla
Solar energy transmission	Prestup slnečného žiarenia
Solar energy reflection	Odraz slnečného žiarenia

Basic soda lime silicate float glass	Základné plavené sodnovápenatokremičité sklo
Basic soda lime silicate patterned glass	Základné sodnovápenatokremičité vzorované sklo
Basic soda lime silicate wired patterned glass	Základné sodnovápenatokremičité vzorované sklo s drôtenou vložkou
Coated glass	Sklo s povlakom
Thermally toughened soda lime silicate safety glass	Tepelne tvrdené sodnovápenatokremičité bezpečnostné sklo
Heat soaked Thermally toughened soda lime silicate safety glass	Prehrievané tepelne tvrdené sodnovápenatokremičité bezpečnostné sklo
Heat strengthened soda lime silicate glass	Tepelne spevnené sodnovápenatokremičité sklo
Insulating glass units	Jednotky izolačného skla
Laminated glass and laminated safety glass	Laminované sklo a laminované bezpečnostné sklo
Fire resistant glass	Protipožiarne sklo

English → slovenščina

CE Marking	CE označevanje
Characteristics	Lastnosti
Resistance to fire	Ognjeodpornost
Reaction to fire	Obnašanje med požarom
External fire performance	Obnašanje med zunanjim požarom
Bullet resistance	Odpornost pred strelji
Explosion resistance	Odpornost pred eksplozijo
Burglar resistance	Odpornost na vlome
Pendulum body impact resistance	Odpornost na preiskus z nihalom
Resistance against sudden temperature changes and temperature differentials	Odpornost na nenadne temperaturne spremembe in na razlike v temperaturah
Wind, snow, permanent and imposed load resistance	Odpornost na nenadne temperaturne spremembe in na razlike v temperaturah
Direct airborne sound insulation	Direktna zvočna izolirnost
Thermal properties	Toplotne lastnosti
Emissivity	Sevanje
U-value	U - vrednost
Radiation properties	Sevalno tehnične lastnosti
Light transmission	Prepustnost svetlobe
Light reflection	Odbojnost svetlobe
Solar energy transmission	Prepustnost energije
Solar energy reflection	odbojnost energije
g-value	g-vrednost

Basic soda lime silicate float glass	Ravno steklo iz natrijsilikatnega stekla
Basic soda lime silicate patterned glass	Vzorčasto steklo iz natrijsilikatnega stekla
Basic soda lime silicate wired patterned glass	Žično vzorčasto steklo iz natrijsilikatnega stekla
Coated glass	Steklo z nanosi
Thermally toughened soda lime silicate safety glass	Kaljeno steklo iz natrij-kalcij silikatnega stekla
Heat soaked Thermally toughened soda lime silicate safety glass	Kaljeno steklo s toplotnim preiskusom iz natrij-kalcij silikatnega stekla
Heat strengthened soda lime silicate glass	Toplotno utrjeno steklo iz natrij-kalcij silikatnega stekla
Insulating glass units	Izolacijski stekleni elementi
Laminated glass and laminated safety glass	Lepljeno in varnostno lepljeno steklo
Fire resistant glass	Ognjeodporno steklo za uporabo v gradbeništvu

English → suomi

CE Marking	CE-merkintä
Characteristics	Erityistuntomerkit
Resistance to fire	Palon kestävä
Reaction to fire	Paloa pidättävä
External fire performance	Paloa hidastava
Bullet resistance	Luodinuojaus
Explosion resistance	Räjähdyksensuojaus
Burglar resistance	Murronsuojauus
Pendulum body impact resistance	Suojaus henkilön törmäystä vastaan
Resistance against sudden temperature changes and temperature differentials	Suojaus äkillistä lämpötilanmuutosta ja lämpötilagradientteja vastaan
Wind, snow, permanent and imposed load resistance	Suojaus tuulikuormaa, lumikuormaa, pysyvää kuormaa ja hyötykuormaa vastaan
Direct airborne sound insulation	Suoran ilmaaäneen eristys
Thermal properties	Lämmöneristys
Emissivity	Emissiivisyys
U-value	U-arvo
Radiation properties	Säteilyn suojauus
Light transmission	Valonläpäisy
Light reflection	Valonheijastus
Solar energy transmission	Auringon lämpösäteilyn kokonaisläpäisy
Solar energy reflection	Auringon lämpösäteilyn heijastus

Basic soda lime silicate float glass	Natronkalkkisilikaattitasolasi
Basic soda lime silicate patterned glass	Natronkalkkisilikaatti koristelasi
Basic soda lime silicate wired patterned glass	Kuvioitu natronkalkkisilikaattirautalankalasi
Coated glass	Pinnoitelasi
Thermally toughened soda lime silicate safety glass	Lämpökarkaistu natronkalkkisilikaattiturvalasi
Heat soaked Thermally toughened soda lime silicate safety glass	Heat soak testattu karkaistu natronkalkkisilikaattiturvalasi
Heat strengthened soda lime silicate glass	Lämpölujitettu natronkalkkisilikaattiturvalasi
Insulating glass units	Eristyslasiyksiköt
Laminated glass and laminated safety glass	Laminoitu lasi ja laminoitu turvalasi
Fire resistant glass	Palonsuojalasi

English → svenska

CE Marking	CE-märkning
Characteristics	Karaktäristik
Resistance to fire	Motstånd mot brand
Reaction to fire	Reaktion vid brand
External fire performance	Extern brandmotstånd
Bullet resistance	Motstånd mot projektiler
Explosion resistance	Säkerhet vid explosion
Burglar resistance	Motstånd mot inbrott
Pendulum body impact resistance	Pendelprov (personsäkerhet)
Resistance against sudden temperature changes and temperature differentials	Motstånd mot plötsliga temperatursvängningar och temperaturgradienter
Wind, snow, permanent and imposed load resistance	Vind-, snö-, permanent/tillfällig belastning.
Direct airborne sound insulation	Ljudisolering
Thermal properties	Värmeisolering
Emissivity	Emissivitet
U-value	U-värde
Radiation properties	Strålningsegenskaper
Light transmission	Ljustransmission
Light reflection	Ljusreflektion
Solar energy transmission	Solenergi transmission
Solar energy reflection	Solenergi reflektion

Basic soda lime silicate float glass	Kalk-sodasilikatglas,floatglas
Basic soda lime silicate patterned glass	Kalk-sodasilikatglas, mönstrat glas
Basic soda lime silicate wired patterned glass	Kalk-sodasilikatglas, mönstrat trådglass
Coated glass	Belagt glas
Thermally toughened soda lime silicate safety glass	Termiskt härdat glas
Heat soaked Thermally toughened soda lime silicate safety glass	Heat soak testat termiskt härdat kalk-sodasilikatglas
Heat strengthened soda lime silicate glass	Värmeförstärkt kalk-sodasilikatglas
Insulating glass units	Isolerglas
Laminated glass and laminated safety glass	Suédois
Fire resistant glass	Brandskyddsglas