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Introduction

This file gives CE declarations and performances for basis glass products of AGC Flat 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.

Artlite



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



We

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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**

Artlite/Artlite Digital Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD

Brussels
 25th of June 2010

JL. Batkin
 Vice-President, Processed Glass Division



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



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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 / EN 14179-2**

Artlite/Artlite Digital Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm	15 mm	19 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)	NPD	NPD
11. Thermal properties:								
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division

Blackpearl



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Blackpearl (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
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Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Blackpearl characteristics in :	8 mm
1. Resistance to fire (EN 13501-2)	NPD
2. Reaction to fire (EN 13501-1)	A1
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	NPD
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	NPD
7. Pendulum body impact resistance (EN 12600)	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	2/32/5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	2/26/4

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Blackpearl Heat strengthened



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Blackpearl Heat strengthened characteristics in :	8 mm
1. Resistance to fire (EN 13501-2)	NPD
2. Reaction to fire (EN 13501-1)	A1
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	NPD
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	NPD
7. Pendulum body impact resistance (EN 12600)	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	2/32/5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	2/26/4

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Blackpearl Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Blackpearl Thermally toughened or Heat soaked thermally toughened characteristics in :	8 mm
1. Resistance to fire (EN 13501-2)	NPD
2. Reaction to fire (EN 13501-1)	A1
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	NPD
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	NPD
7. Pendulum body impact resistance (EN 12600)	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -2)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	2/32/5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	2/26/4

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division

Colorbel



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



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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**

Colorbel Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD

Brussels
 01st of September 2006

JL. Batkin
 Vice-President, Processed Glass Division



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



We

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Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
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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 / 14179-2**

Colorbel Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm	15 mm	19 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)	NPD	NPD
11. Thermal properties:								
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division

Concepta



CE Marking of Laminated glass – EN 14449
Declaration of performances
Concepta



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Concepta characteristics:	33.2	44.2	55.2	66.2	88.2	10 10.2
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD	NPD

Brussels
 11th of September 2007

JL. Batkin
 Vice-President, Processed Glass Division

GH Phon



CE Marking of Laminated glass – EN 14449
Declaration of performances
GH Phon



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

GH Phon characteristics in :	4-1-4	4-1,5-4	4-1-5	4-1,5-5	4-1-6	4-1,5-6
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	37 (-1, -2)	NPD	NPD	NPD	NPD
11. Thermal properties:						
- U_g -value (EN 673)	5,5	5,5	5,5	5,5	5,5	5,4
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	88 / 8 / 8	88 / 8 / 8	87 / 8 / 8	87 / 8 / 8	87 / 8 / 8	87 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	76 / 7 / 7	75 / 7 / 7	74 / 7 / 7	74 / 7 / 7	73 / 7 / 7	72 / 7 / 7

Brussels
 20th of July 2007

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
GH Phon



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

GH Phon characteristics in :	5-1-5	5-1,5-5	6-1-6	6-1,5-6	8-1-6	8-1,5-6
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	38 (0, -2)	NPD	38 (0, -3)	NPD	NPD
11. Thermal properties: - U_g -value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,5 0,89	5,4 0,89	5,4 0,89	5,4 0,89	5,4 0,89	5,3 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87 / 8 / 8	87 / 8 / 8	86 / 8 / 8	86 / 8 / 8	85 / 8 / 8	85 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	73 / 7 / 7	72 / 7 / 7	70 / 7 / 7	69 / 7 / 7	68 / 7 / 7	67 / 6 / 6

Brussels
20th of July 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
GH Phon



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

GH Phon characteristics in :	8-1-8	8-1,5-8	8-1-10	8-1,5-10	10-1-10	10-1,5-10
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties: - U_g -value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,3 0,89	5,2 0,89	5,2 0,89	5,2 0,89	5,2 0,89	5,2 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	84 / 8 / 8	84 / 8 / 8	83 / 8 / 8	83 / 8 / 8	82 / 7 / 7	82 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	65 / 6 / 6	65 / 6 / 6	63 / 6 / 6	63 / 6 / 6	61 / 6 / 6	60 / 6 / 6

Brussels
20th of July 2007

JL. Batkin
Vice-President, Processed Glass Division

Imagin



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



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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**

Imagin clear characteristics in :	2 mm	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	13,5 mm	15 mm	19mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R _w (C, C _{tr})	NPD	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	NPD	NPD	NPD
11. Thermal properties: - U-value (EN 673) - Normal emissivity ε _n (EN 12898)	5,8 0,89	5,8 0,89	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89	5,5 0,89	5,5 0,89	5,4 0,89
12. Light transmission/reflection (EN 410): τ _v / ρ _v / ρ' _v	91 / 8 / 8	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	87 / 8 / 8	87 / 8 / 8	85 / 8 / 8	84 / 8 / 8	82 / 7 / 7
13. Solar energy transmission/reflection (EN 410): τ _e / ρ _e / ρ' _e	88 / 8 / 8	86 / 8 / 8	84 / 8 / 8	82 / 7 / 7	80 / 7 / 7	77 / 7 / 7	74 / 7 / 7	70 / 7 / 7	67 / 6 / 6	63 / 6 / 6

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



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



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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**

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

Brussels
1st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



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



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
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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 / 14179-2**

Imagin clear Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	13,5 mm	15 mm	19mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	NPD	NPD	NPD
11. Thermal properties:								
- U-value (EN 673)	5,8	5,8	5,7	5,7	5,6	5,5	5,5	5,4
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	87 / 8 / 8	87 / 8 / 8	85 / 8 / 8	84 / 8 / 8	82 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	84 / 8 / 8	82 / 7 / 7	80 / 7 / 7	77 / 7 / 7	74 / 7 / 7	70 / 7 / 7	67 / 6 / 6	63 / 6 / 6

Brussels
1st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Wired patterned glass - EN 572-9
Declaration of performances
Imagin bronze (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Imagin bronze characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,8	5,7	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	59 / 6 / 6	52 / 6 / 6	46 / 5 / 5	37 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	60 / 6 / 6	54 / 6 / 6	49 / 5 / 5	40 / 5 / 5

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Imagin bronze Heat strengthened



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Imagin bronze Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	59 / 6 / 6	52 / 6 / 6	46 / 5 / 5	37 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	60 / 6 / 6	54 / 6 / 6	49 / 5 / 5	40 / 5 / 5

Brussels
1st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened - EN 12150-2
CE Marking of Heat soaked Thermally toughened or - EN 14179-2
Declaration of performances
Imagin 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 **IMAGIN BRONZE Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Imagin bronze Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	59 / 6 / 6	52 / 6 / 6	46 / 5 / 5	37 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	60 / 6 / 6	54 / 6 / 6	49 / 5 / 5	40 / 5 / 5

Brussels
 1st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Wired patterned glass - EN 572-9
Declaration of performances
Imagin yellow (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Imagin yellow characteristics in :	4 mm	5 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n (EN 12898)	5,8 0,89	5,8 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	73 / 7 / 7	69 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	61 / 6 / 6	55 / 6 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Imagin yellow Heat strengthened



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Imagin yellow Heat strengthened characteristics in :	4 mm	5 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,8 0,89	5,8 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	73 / 7 / 7	69 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	61 / 6 / 6	55 / 6 / 6

Brussels
1st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Imagin yellow Thermally toughened or Heat soaked thermally toughened



We

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Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Imagin yellow Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n (EN 12898)	5,8 0,89	5,8 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	73 / 7 / 7	69 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	61 / 6 / 6	55 / 6 / 6

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division

Imagin wired



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



We

AGC Flat Glass Europe
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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**

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

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



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



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Imagin wired clear characteristics in :	6 mm
Certificate Number:	1394/89/106/EEC/01B/2006
Notified Body:	1394
1. Resistance to fire (EN 13501-2)	E45
2. Reaction to fire (EN 13501-1)	A1
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	NPD
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	NPD
7. Pendulum body impact resistance (EN 12600)	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD
11. Thermal properties:	
- U-value (EN 673)	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	89 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	80 / 7 / 7

Brussels
2nd of September 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



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



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Imagin wired bronze characteristics in :	6 mm
1. Resistance to fire (EN 13501-2)	NPD
2. Reaction to fire (EN 13501-1)	A1
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	NPD
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	NPD
7. Pendulum body impact resistance (EN 12600)	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD
11. Thermal properties:	
- U-value (EN 673)	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	46 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	49 / 5 / 5

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



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



We

AGC Flat Glass Europe
Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **IMAGIN WIRED YELLOW**, intended to be used in buildings and construction works, following **EN 572-9**

Imagin wired yellow characteristics in :	6 mm
1. Resistance to fire (EN 13501-2)	NPD
2. Reaction to fire (EN 13501-1)	A1
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	NPD
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	NPD
7. Pendulum body impact resistance (EN 12600)	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD
11. Thermal properties:	
- U-value (EN 673)	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	65 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	51 / 6 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division

Lacobel T



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



We

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Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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**

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

Brussels
21st of June 2011


JL. Batkin
Vice-President, Processed Glass Division



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



We

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 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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 / 14179-2**

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

Brussels
 21st of June 2011

JL. Batkin
 Vice-President, Processed Glass Division

Mirox 3G



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox 3G Clear**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX 3G CLEAR**, intended to be used in buildings and construction works, following **EN 1036-2**

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

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox 3G Clearvision



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX 3G CLEARVISION**, intended to be used in buildings and construction works, following **EN 1036-2**

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

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox 3G Bronze**



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX 3G BRONZE**, intended to be used in buildings and construction works, following **EN 1036-2**

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

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox 3G Grey



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX 3G GREY**, intended to be used in buildings and construction works, following **EN 1036-2**

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

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox 3G 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 3G BLACK MIROX**, intended to be used in buildings and construction works, following **EN 1036-2**

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

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox 3G PrivaBlue**



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX 3G PRIVABLUE**, intended to be used in buildings and construction works, following **EN 1036-2**

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

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
Declaration of performances
Mirox 3G Green**



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **MIROX 3G GREEN**, intended to be used in buildings and construction works, following **EN 1036-2**

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

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division

Mirox MNGE



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
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**

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

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
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**

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

Brussels
 11/12/2009

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
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**

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

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
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**

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

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
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**

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

Brussels
25/05/2011

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Mirrors from silver-coated float glass for internal use
EN 1036-2
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**

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

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



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



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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**

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

Brussels
11/12/2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division

Planibel clear



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



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Planibel clear characteristics in :	2 mm	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:								
- U-value (EN 673)	5,8	5,8	5,8	5,8	5,7	5,7	5,6	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	91 / 8 / 8	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	88 / 8 / 8	87 / 8 / 8	86 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	88 / 8 / 8	86 / 8 / 8	84 / 8 / 8	83 / 7 / 7	81 / 7 / 7	78 / 7 / 7	75 / 7 / 7	72 / 7 / 7

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



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



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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**

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

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
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 / 14179-2**

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

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



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



We

AGC Flat Glass Europe
Division Raw Glass Products
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 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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**

Planibel Linea Azzurra characteristics in :	8 mm	10 mm	12 mm	15 mm	19 mm	25 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)	NPD	NPD	NPD
11. Thermal properties:						
- U-value (EN 673)	5,7	5,6	5,6	5,5	5,4	5,2
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87 / 8 / 8	86 / 8 / 8	85 / 8 / 8	83 / 8 / 8	81 / 7 / 7	78 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	73 / 7 / 7	69 / 6 / 6	66 / 6 / 6	61 / 6 / 6	56 / 6 / 6	50 / 6 / 6

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



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



We



AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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**

Planibel Linea Azzurra Heat strengthened characteristics in :	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,7 0,89	5,6 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87 / 8 / 8	86 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	73 / 7 / 7	69 / 6 / 6

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division

	<p align="center"> CE Marking of Thermally toughened glass - EN 12150-2 CE Marking of Heat soaked Thermally toughened glass - EN 14179-2 Declaration of performances Planibel Linea Azzurra Thermally toughened or Heat soaked thermally toughened </p>	
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We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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 / 14179-2**

Planibel Linea Azzurra Thermally toughened or Heat soaked thermally toughened characteristics in :	8 mm	10 mm	12 mm	15 mm	19 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C1	1C1	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)	NPD	NPD
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,7 0,89	5,6 0,89	5,6 0,89	5,5 0,89	5,4 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87 / 8 / 8	86 / 8 / 8	85 / 8 / 8	83 / 8 / 8	81 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	73 / 7 / 7	69 / 6 / 6	66 / 6 / 6	61 / 6 / 6	56 / 6 / 6



Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



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



We

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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**

Planibel Clearvision, Sunmax, Sunmax Premium characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm	15 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)	NPD
11. Thermal properties:								
- U-value (EN 673)	5,8	5,8	5,8	5,7	5,7	5,6	5,6	5,5
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	92 / 8 / 8	92 / 8 / 8	91 / 8 / 8	91 / 8 / 8	91 / 8 / 8	91 / 8 / 8	90 / 8 / 8	89 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	91 / 8 / 8	91 / 8 / 8	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	86 / 8 / 8	85 / 8 / 8

Brussels
 06th of March 2009

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



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



We



AGC Flat Glass Europe
Division Processed Glass Products
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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**

Planibel Clearvision, Sunmax, Sunmax Premium Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	5,8	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	92 / 8 / 8	91 / 8 / 8	91 / 8 / 8	91 / 8 / 8	91 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	91 / 8 / 8	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8

Brussels
 06th of March 2009

JL. Batkin
 Vice-President, Processed Glass Division

	<p align="center"> CE Marking of Thermally toughened glass - EN 12150-2 CE Marking of Heat soaked Thermally toughened glass - EN 14179-2 Declaration of performances Planibel Clearvision, Sunmax, Sunmax Premium Thermally toughened or Heat soaked thermally toughened </p>	
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We

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Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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 / 14179-2**

Planibel Clearvision, Sunmax, Sunmax Premium Thermally toughened or Heat soaked thermally toughened characteristics in	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm	15 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	1C3	1C3	1C2	1C2	1C1	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)	NPD
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	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	5,5 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	92 / 8 / 8	92 / 8 / 8	91 / 8 / 8	91 / 8 / 8	91 / 8 / 8	91 / 8 / 8	90 / 8 / 8	89 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	91 / 8 / 8	91 / 8 / 8	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	86 / 8 / 8	85 / 8 / 8



Brussels
06th of March 2009

JL. Batkin
Vice-President, Processed Glass Division



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



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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**

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

Brussels
04th of February 2011

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division

Planibel coloured



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



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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**

Planibel Green characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	5,8	5,8	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	81 / 7 / 7	79 / 7 / 7	76 / 7 / 7	73 / 7 / 7	68 / 6 / 6	63 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	59 / 6 / 6	54 / 6 / 6	49 / 6 / 6	44 / 5 / 5	37 / 5 / 5	31 / 5 / 5

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



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



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
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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**

Planibel Green Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	5,8	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	79 / 7 / 7	76 / 7 / 7	73 / 7 / 7	68 / 6 / 6	63 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	54 / 6 / 6	49 / 6 / 6	44 / 5 / 5	37 / 5 / 5	31 / 5 / 5

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



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



We

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Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Planibel Green Thermally toughened or Heat soaked thermally toughened characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	5,8	5,8	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	81 / 7 / 7	79 / 7 / 7	76 / 7 / 7	73 / 7 / 7	68 / 6 / 6	63 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	59 / 6 / 6	54 / 6 / 6	49 / 6 / 6	44 / 5 / 5	37 / 5 / 5	31 / 5 / 5

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



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



We

AGC Flat Glass Europe
Division Raw Glass Products
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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**

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

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
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**

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

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division

	<p align="center"> CE Marking of Thermally toughened glass - EN 12150-2 CE Marking of Heat soaked Thermally toughened glass - EN 14179-2 Declaration of performances Planibel Bronze Thermally toughened or Heat soaked thermally toughened </p>	
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We

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Division Processed Glass Products
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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 / 14179-2**

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



Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



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



We

AGC Flat Glass Europe

Division Raw Glass Products

Chaussée de La Hulpe 166 - B 1170 Brussels

Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

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

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



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



We



AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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**

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

Brussels
 01st of September 2006

JL. Batkin
 Vice-President, Processed Glass Division

	<p align="center"> CE Marking of Thermally toughened glass - EN 12150-2 CE Marking of Heat soaked Thermally toughened glass - EN 14179-2 Declaration of performances Planibel Grey Thermally toughened or Heat soaked thermally toughened </p>	
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We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Planibel Grey Thermally toughened or Heat soaked thermally toughened characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:							
- U-value (EN 673)	5,8	5,8	5,8	5,7	5,7	5,6	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	63 / 6 / 6	57 / 6 / 6	50 / 5 / 5	44 / 5 / 5	34 / 5 / 5	27 / 5 / 5	21 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	64 / 6 / 6	58 / 6 / 6	52 / 6 / 6	46 / 5 / 5	37 / 5 / 5	30 / 5 / 5	24 / 5 / 5



Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



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



We

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Division Raw Glass Products
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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**

Planibel Dark Grey characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	18 / 4 / 4	8 / 4 / 4	4 / 4 / 4	2 / 4 / 4
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	18 / 4 / 4	8 / 4 / 4	4 / 4 / 4	2 / 4 / 4

Brussels
27th of November 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel Dark 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 **PLANIBEL DARK GREY Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel Dark Grey Heat strengthened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	18 / 4 / 4	8 / 4 / 4	4 / 4 / 4	2 / 4 / 4
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	18 / 4 / 4	8 / 4 / 4	4 / 4 / 4	2 / 4 / 4

Brussels
27th of November 2008

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel Dark 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 **PLANIBEL DARK GREY Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

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

Brussels
 27th of November 2008


 JL. Batkin
 Vice-President, Processed Glass Division



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



We

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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**

Planibel Azur characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	79 / 7 / 7	73 / 7 / 7	68 / 6 / 6	63 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	59 / 6 / 6	49 / 6 / 6	42 / 5 / 5	36 / 5 / 5

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
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**

Planibel Azur Heat strengthened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,8 0,89	5,7 0,89	5,7 0,89	5,6 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	79 / 7 / 7	73 / 7 / 7	68 / 6 / 6	63 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	59 / 6 / 6	49 / 6 / 6	42 / 5 / 5	36 / 5 / 5

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
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 / 14179-2**

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

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Float glass - EN 572-9
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**

Planibel Dark Blue characteristics in :	4 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,8 0,89	5,7 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	68 / 6 / 6	58 / 6 / 6	50 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	52 / 6 / 6	41 / 5 / 5	33 / 5 / 5

Brussels
01st of September 2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel 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 **PLANIBEL DARK BLUE Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel Dark Blue Heat strengthened characteristics in :	4 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,8 0,89	5,7 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	68 / 6 / 6	57 / 6 / 6	50 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	52 / 6 / 6	41 / 5 / 5	33 / 5 / 5

Brussels
01st of September 2009

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel 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 **PLANIBEL DARK BLUE Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

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

Brussels
01st of September 2009

JL. Batkin
Vice-President, Processed Glass Division



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



We

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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**

Planibel PrivaBlue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	48 / 5 / 5	35 / 5 / 5	25 / 5 / 5	18 / 4 / 4
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	31 / 5 / 5	20 / 4 / 4	14 / 4 / 4	10 / 4 / 4

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



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



We

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Division Processed Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **PLANIBEL PRIVABLU** Heat strengthened, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel PrivaBlue Heat strengthened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,7	5,7	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	48 / 5 / 5	35 / 5 / 5	25 / 5 / 5	18 / 4 / 4
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	31 / 5 / 5	20 / 4 / 4	14 / 4 / 4	10 / 4 / 4

Brussels
 01st of September 2006

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
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 / 14179-2**

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

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division

Planibel low-e



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel Top 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 Top N**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel Top N characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87 / 6 / 8	87 / 6 / 8	87 / 6 / 8	86 / 6 / 8	86 / 6 / 8	85 / 6 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	64 / 25 / 23	63 / 25 / 22	63 / 25 / 22	62 / 25 / 21	61 / 25 / 20	60 / 25 / 19

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel Top 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 Top N+**, intended to be used in buildings and construction works, following **EN 1096-4**

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

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel Tri (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Tri**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel Tri characteristics in :	3 mm	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,07	NPD 0,07	NPD 0,07
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	89 / 8 / 8	88 / 8 / 8	87 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	72 / 17 / 16	71 / 17 / 15	69 / 17 / 14

Brussels
27th of October 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel Top 1.0 (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 1.0**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel top 1.0 characteristics in :	3 mm	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	77 / 15 / 17	77 / 15 / 17	76 / 15 / 17	76 / 15 / 17	75 / 15 / 16
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	48 / 42 / 34	47 / 42 / 32	46 / 42 / 30	45 / 42 / 27	44 / 41 / 25

Brussels
 11th of June 2009

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel Tri 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 **Planibel Tri on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel Tri on Clearvision characteristics in :	3 mm	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,07	0,07	0,07
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	89 / 7 / 8	89 / 7 / 8	89 / 7 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	75 / 18 / 17	75 / 18 / 17	75 / 17 / 17

Brussels
20th of February 2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



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



We

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

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

Brussels
28^h of April 2011

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel I-Top 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 **Planibel I-Top on clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel I-Top on Clearvision characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,03	NPD 0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	89 / 6 / 7	89 / 6 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	63 / 29 / 29	63 / 29 / 29

Brussels
28^h of April 2011

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel Top 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 **Planibel Top NT Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel Top NT Heat strengthened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,05	0,05	0,05	0,05
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	88 / 6 / 6	87 / 6 / 6	86 / 6 / 6	85 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	67 / 21 / 17	64 / 21 / 16	62 / 21 / 15	60 / 21 / 14

Brussels
 01st of September 2006

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel Top 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 **Planibel Top NT Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Planibel Top NT Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,05	0,05	0,05	0,05
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	88 / 6 / 6	87 / 6 / 6	86 / 6 / 6	85 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	67 / 21 / 17	64 / 21 / 16	62 / 21 / 15	60 / 21 / 14

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



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



We

AGC Flat Glass Europe
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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**

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

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel Top N+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 **Planibel Top N+T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

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

Brussels
 31st of March 2008

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
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 / 14179-2**

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

Brussels
31st of March 2008

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel 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 **Planibel Energy N**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel Energy N characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	79 / 6 / 7	78 / 6 / 7	77 / 6 / 7	76 / 6 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	44 / 38 / 29	43 / 38 / 26	42 / 38 / 24	41 / 38 / 21

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel 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 **Planibel Energy N on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Planibel Energy N on Clearvision characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	80 / 6 / 7	80 / 6 / 7	80 / 6 / 7	80 / 6 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	46 / 38 / 35	45 / 38 / 34	45 / 38 / 33	45 / 38 / 33

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



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



We

AGC Flat Glass Europe
Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Planibel Energy NT**, intended to be used in buildings and construction works, following **EN 1096-4**

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

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Planibel 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 **Planibel Energy NT Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Planibel Energy NT Heat strengthened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	83 / 7 / 7	82 / 7 / 7	81 / 7 / 7	80 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	48 / 39 / 29	46 / 39 / 26	45 / 39 / 24	44 / 39 / 22

Brussels
 25th of June 2010

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel 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 **Planibel Energy NT Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Planibel Energy NT Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	83 / 7 / 7	82 / 7 / 7	81 / 7 / 7	80 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	48 / 39 / 29	46 / 39 / 26	45 / 39 / 24	44 / 39 / 22

Brussels
25th of June 2010

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Planibel Light (annealed)



We

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

Planibel Light characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,01	NPD 0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	72 / 19 / 21	71 / 19 / 21
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	44 / 43 / 34	42 / 43 / 30

Brussels
08rd of February 2011

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
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**

Planibel G characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,15	NPD 0,15
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	82 / 12 / 11	81 / 12 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	70 / 12 / 11	68 / 12 / 10

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
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**

Planibel G Heat strengthened characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD NPD	NPD NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	82 / 12 / 11	81 / 12 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	70 / 12 / 11	68 / 12 / 10

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Planibel G 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 Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Planibel G Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD NPD	NPD NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	82 / 12 / 11	81 / 12 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	70 / 12 / 11	68 / 12 / 10

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
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**

Planibel G fasT characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,15	NPD 0,15
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	81 / 12 / 11	80 / 12 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	69 / 13 / 11	67 / 12 / 11

Brussels
04rd of June 2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
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**

Planibel G fasT Heat strengthened characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD NPD	NPD NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	81 / 12 / 12	80 / 12 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	69 / 13 / 13	67 / 12 / 11

Brussels
04rd of June 2009

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
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 / 14179-2**

Planibel G fasT Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	81 / 12 / 12	80 / 12 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	69 / 13 / 13	67 / 12 / 11

Brussels
 04th of June 2009

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
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**

Planibel A characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,10	NPD 0,10
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	80 / 11 / 10	79 / 11 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	68 / 12 / 11	65 / 11 / 10

Brussels
05th of November 2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
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**

Planibel A Heat strengthened characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD NPD	NPD NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	80 / 11 / 10	79 / 11 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	68 / 12 / 11	65 / 11 / 10

Brussels
05th of November 2009

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
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 / 14179-2**

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

Brussels
05th of November 2009

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
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**

Planibel Hortiplus N characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,15	NPD 0,15
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	82 / 12 / 11	81 / 12 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	70 / 12 / 11	68 / 12 / 10

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
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**

Planibel Hortiplus N Heat strengthened characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD NPD	NPD NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	82 / 12 / 11	81 / 12 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	70 / 12 / 11	68 / 12 / 10

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
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 / 14179-2**

Planibel Hortiplus N Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD NPD	NPD NPD
12. Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	82 / 12 / 11	81 / 12 / 11
13. Solar energy transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e	70 / 12 / 11	68 / 12 / 10

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division

Polished wired glass



CE Marking of Polished wired glass - EN 572-9
Declaration of performances
Polished wired glass



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

Polished wired glass characteristics in :	6 mm Polished wired glass J	6 mm Polished wired glass Safety J
Certificate Number:	0749-CPD-410 143AS	0749-CPD-410 143AS
Notified Body:	0749	0749
1. Resistance to fire (EN 13501-2)	E30	E30
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	3B3
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	80 / 8 / 8	80 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	70 / 7 / 7	70 / 7 / 7

Brussels
 22th of April 2011

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division

Pyrobelite / Pyrobel



CE Marking of Pyrobel – EN 14449
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**

Pyrobelite characteristics in :	Pyrobelite 7	Pyrobelite 7 EG	Pyrobelite 11
Certificate Number:	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004
Notified Body :	1121	1121	1121
1. Resistance to fire (EN 13501-2)	EW30	EW30	EW30
2. Reaction to fire (EN 13501-1)	A2 s1 d0	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	3B3	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	34 (0; -3)	35 (-1; -2)	35 (-1; -2)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,7 NPD	5,5 NPD	5,5 NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	89 / 8 / 8	87 / 8 / 8	87 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	73 / 7 / 7	65 / 7 / 7	65 / 7 / 7

Brussels
 20th of February 2009

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Pyrobel – EN 14449
Declaration of performances
Pyrobelite



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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**

Pyrobelite characteristics in :	Pyrobelite 12	Pyrobelite 12 EG	Pyrobelite 13
Certificate Number:	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004
Notified Body :	1121	1121	1121
1. Resistance to fire (EN 13501-2)	EI20 / EW60	EI20 / EW60	EW30
2. Reaction to fire (EN 13501-1)	A2 s1 d0	NPD	A2 s1 d0
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	36 (-1; -3)	38 (-1; -3)	34 (0; -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n (EN 12898)	5,6 NPD	5,4 NPD	5,5 NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	86 / 8 / 8	85 / 8 / 8	86 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	65 / 7 / 7	58 / 6 / 6	65 / 6 / 6

Brussels
20th of February 2009

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Pyrobel – EN 14449
Declaration of performances
Pyrobel



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Pyrobel characteristics in :	Pyrobel 8	Pyrobel 8 EG	Pyrobel 16	Pyrobel 16 EG
Certificate Number:	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004
Notified Body :	1121	1121	1121	1121
1. Resistance to fire (EN 13501-2)	EI15 / EW30	EI15 / EW30	EI30 / EW60	EI30 / EW60
2. Reaction to fire (EN 13501-1)	A2 s1 d0	NPD	A2 s1 d0	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	1B1	2B2	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	34 (-1; -3)	36 (-1; -3)	39 (-1; -3)	39 (-1; -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,6 NPD	5,4 NPD	5,4 NPD	5,2 NPD
12. Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	88 / 8 / 8	86 / 8 / 8	84 / 8 / 8	83 / 7 / 7
13. Solar energy transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e	70 / 7 / 7	62 / 6 / 6	60 / 6 / 6	54 / 6 / 6

Brussels
 20th of February 2009

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Pyrobel – EN 14449
Declaration of performances
Pyrobel



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Pyrobel characteristics in :	Pyrobel 17	Pyrobel 17 EG	Pyrobel 17N	Pyrobel 17N EG
Certificate Number:	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004
Notified Body :	1121	1121	1121	1121
1. Resistance to fire (EN 13501-2)	EI45	EI45	EW60	EW60
2. Reaction to fire (EN 13501-1)	A2 s1 d0	NPD	A2 s1 d0	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	37 (-1; -3)	38 (0; -3)	39 (0; -3)	40 (-1, -3)
11. Thermal properties:				
- U-value (EN 673)	5,4	5,2	5,4	5,2
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	84 / 8 / 8	84 / 8 / 8	86 / 8 / 8	85 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	61 / 6 / 6	56 / 6 / 6	67 / 7 / 7	60 / 7 / 7

Brussels
20th of May 2010

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Pyrobel – EN 14449
Declaration of performances
Pyrobel



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

Pyrobel characteristics in :	Pyrobel 21	Pyrobel 21 EG	Pyrobel 25	Pyrobel 25 EG
Certificate Number:	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004
Notified Body :	1121	1121	1121	1121
1. Resistance to fire (EN 13501-2)	EI45 / EW60	EI45 / EW60	EI60	EI60
2. Reaction to fire (EN 13501-1)	A2 s1 d0	NPD	A2 s1 d0	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	38 (0; -3)	40 (-1; -3)	40 (-1; -3)	43 (-1; -4)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,3 NPD	5,1 NPD	5,2 NPD	5,0 NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	82 / 7 / 7	81 / 7 / 7	81 / 7 / 7	80 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	59 / 6 / 6	54 / 6 / 6	53 / 6 / 6	48 / 6 / 6

Brussels
 20th of February 2009

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Pyrobel – EN 14449
Declaration of performances
Pyrobel



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

Pyrobel characteristics in :	Pyrobel 30	Pyrobel 30 EG	Pyrobel 35	Pyrobel 35 EG
Certificate Number:	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004
Notified Body :	1121	1121	1121	1121
1. Resistance to fire (EN 13501-2)	EI90	EI90	EI90	EI90
2. Reaction to fire (EN 13501-1)	A2 – s1, d0	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	42 (-1; -4)	43 (-1; -4)	41 (-1; -4)	42 (-1; -4)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,1 NPD	4,9 NPD	4,9 NPD	4,8 NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	83 / 8 / 8	81 / 8 / 8	79 / 7 / 7	77 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	59 / 7 / 7	53 / 6 / 6	49 / 6 / 6	46 / 6 / 6

Brussels
 14th of March 2011

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Pyrobel – EN 14449
Declaration of performances
Pyrobel



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

Pyrobel characteristics in :	Pyrobel 53	Pyrobel 53 EG	Pyrobel 53N	Pyrobel 53N EG
Certificate Number:	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004
Notified Body :	1121	1121	1121	1121
1. Resistance to fire (EN 13501-2)	EI120	EI120	EI120	EI120
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	45 (-1; -4)	46 (-2; -5)	48 (-2; -7)	49 (-2; -7)
11. Thermal properties:				
- U-value (EN 673)	4,5	4,3	4,5	4,4
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	72 / 7 / 7	71 / 7 / 7	75 / 6 / 6	73 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	40 / 5 / 5	38 / 5 / 5	42 / 5 / 5	40 / 5 / 5

Brussels
 14th of March 2011

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Pyrobel – EN 14449
Declaration of performances
Pyrobel



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

Pyrobel characteristics in :	Pyrobel 19H	Pyrobel 23H	Pyrobel 28H
Certificate Number:	1121 – CPD – CA0004	1121 – CPD – CA0004	1121 – CPD – CA0004
Notified Body :	1121	1121	1121
1. Resistance to fire (EN 13501-2)	EI30	EI45	EI60
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	38 (-1; -3)	39 (0; -3)	41 (0;-3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,2 NPD	5,0 NPD	4,9 NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	81 / 7 / 7	80 / 7 / 7	78 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	53 / 6 / 6	49 / 6 / 6	47 / 6 / 6

Brussels
20th of February 2009

JL. Batkin
Vice-President, Processed Glass Division

Pyropane



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



We

AGC Flat Glass Europe
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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**

Pyropane characteristics in :	Pyropane 100
Certificate Number:	0336-CPD-9265A
Notified Body :	0336
1. Resistance to fire (EN 13501-2)	E30
2. Reaction to fire (EN 13501-1)	A1
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	NPD
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	NPD
7. Pendulum body impact resistance (EN 12600)	1C1
8. Resistance against sudden temperature change and temperature differentials	NPD
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2; -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	89 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	81 / 7 / 7

Brussels
2nd of September 2008

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Static Smoke Barrier - EN 12101-1
Declaration of performances
Pyropane100 SB 30




We

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Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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**

Pyropane characteristics in :	Pyropane 100 SB30
Certificate Number:	0336-CPD-9265E
Notified Body :	0336
Resistance to fire classification	DH 30
Response delay	NPD
Openings, gaps and perimeter spaces :	
Gap head	10 mm
Gap edge	11 mm
Gap joint	6 mm
Area head	NPD
Area edge	NPD
Area joint	NPD
Maximum barrier permeability	NPD

Brussels
22nd of February 2011 2008


JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Insulating glass unit – EN 1279-5
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**

Pyropane characteristics in :	Pyropane 211 - 44 6 - 12 air - 6	Pyropane 211 - 44 6 - 12 argon 90% - 6	Pyropane 211 - 44 6 - 15 air - 6	Pyropane 211 - 44 6 - 15 argon 90% - 6
Certificate Number:	0749-CPD-143	0749-CPD-143	0749-CPD-143	0749-CPD-143
Notified Body :	0749	0749	0749	0749
1. Resistance to fire (EN 13501-2)	E30/60 – EW30/60	E30/60 – EW30/60	E30/60 – EW30/60	E30/60 – EW30/60
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C1 / 1C2	1C1 / 1C2	1C1 / 1C2	1C1 / 1C2
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-1; -4)	31 (-1; -4)	32 (-1; -3)	32 (-1; -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	1,5 NPD	1,2 NPD	1,3 NPD	1,0 NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	73 / 13 / 13	73 / 13 / 13	73 / 13 / 13	73 / 13 / 13
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	40 / 31 / 29	40 / 31 / 29	40 / 31 / 29	40 / 31 / 29

Brussels
 8th of September 2010

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Insulating glass unit – EN 1279-5
Declaration of performances
Pyropane 231-28



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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**

Pyropane characteristics in :	Pyropane 231 - 28 6 - 12 air - 6	Pyropane 231 - 28 6 - 12 argon 90% - 6	Pyropane 231 - 28 6 - 15 air - 6	Pyropane 231 - 28 6 - 15 argon 90% - 6
Certificate Number:	0749-CPD-143	0749-CPD-143	0749-CPD-143	0749-CPD-143
Notified Body :	0749	0749	0749	0749
1. Resistance to fire (EN 13501-2)	E30– EW30	E30– EW30	E30– EW30	E30– EW30
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C1 / 1C2	1C1 / 1C2	1C1 / 1C2	1C1 / 1C2
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-1; -4)	31 (-1; -4)	32 (-1; -3)	32 (-1; -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	1,5 NPD	1,2 NPD	1,3 NPD	1,0 NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	50 / 20 / 22	50 / 20 / 22	50 / 20 / 22	50 / 20 / 22
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 35 / 37	28 / 35 / 37	28 / 35 / 37	28 / 35 / 37

Brussels
 4th of February 2011

JL. Batkin
 Vice-President, Processed Glass Division

Solar patterned glass



CE Marking of Patterned glass - EN 572-9
Declaration of performances
Solatex (annealed)



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SOLATEX**, intended to be used in buildings and construction works, following **EN 572-9**

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

Brussels
22nd of October 2009

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Patterned glass - EN 572-9
Declaration of performances
Solite (annealed)



We

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

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

Brussels
22nd of October 2009

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Patterned glass - EN 572-9
Declaration of performances
Astralite (annealed)



We

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Division Processed Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ASTRALITE**, intended to be used in buildings and construction works, following **EN 572-9**

ASTRALITE characteristics in :	3,2 mm	4 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,8 0,89	5,8 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	91 / 8 / 8	91 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	91 / 8 / 8	90 / 8 / 8

Brussels
22nd of October 2009

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
Declaration of performances
Solatex Thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SOLATEX Thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2**

Solatex Thermally toughened characteristics in :	3,2 mm	4 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n (EN 12898)	5,8 0,89	5,8 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	92 / 8 / 8	92 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	91 / 8 / 8	91 / 8 / 8

Brussels
22nd of October 2009

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
Declaration of performances
Solite Thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SOLITE Thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2**

Solite Thermally toughened characteristics in :	3,2 mm	4 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,8 0,89	5,8 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	92 / 8 / 8	92 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	91 / 8 / 8	91 / 8 / 8

Brussels
22nd of October 2009

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
Declaration of performances
Astralite Thermally toughened



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **ASTRALITE Thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2**

Astralite Thermally toughened characteristics in :	3,2 mm	4 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,8 0,89	5,8 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	91 / 8 / 8	91 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	91 / 8 / 8	90 / 8 / 8

Brussels
22nd of October 2009

JL. Batkin
Vice-President, Processed Glass Division

Stopray



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Elite (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
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 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Elite characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	75 / 9 / 9	75 / 9 / 9	75 / 9 / 9	74 / 9 / 9	73 / 9 / 9	72 / 9 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42 / 38 / 30	42 / 38 / 29	42 / 38 / 28	41 / 38 / 26	40 / 38 / 23	39 / 38 / 22

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Elite (heat strengthened)



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Elite characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	75 / 9 / 9	75 / 9 / 9	75 / 9 / 9	74 / 9 / 9	73 / 9 / 9	72 / 9 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42 / 38 / 30	42 / 38 / 29	42 / 38 / 28	41 / 38 / 26	40 / 38 / 23	39 / 38 / 22

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Elite (Thermally toughened or Heat soaked thermally toughened)



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Elite**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Elite characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	75 / 9 / 9	75 / 9 / 9	75 / 9 / 9	74 / 9 / 9	73 / 9 / 9	72 / 9 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42 / 38 / 30	42 / 38 / 29	42 / 38 / 28	41 / 38 / 26	40 / 38 / 23	39 / 38 / 22

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Safir (annealed)



We

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 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Safir characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	68 / 13 / 11	68 / 13 / 11	68 / 13 / 11	67 / 13 / 11	66 / 13 / 11	65 / 13 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	36 / 42 / 33	36 / 42 / 32	36 / 42 / 30	35 / 42 / 28	34 / 42 / 25	33 / 42 / 24

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Safir (heat strengthened)



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Safir characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	68 / 13 / 11	68 / 13 / 11	68 / 13 / 11	67 / 13 / 11	66 / 13 / 11	65 / 13 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	36 / 42 / 33	36 / 42 / 32	36 / 42 / 30	35 / 42 / 28	34 / 42 / 25	33 / 42 / 24

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Safir (Thermally toughened or Heat soaked thermally toughened)



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Safir characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	68 / 13 / 11	68 / 13 / 11	68 / 13 / 11	67 / 13 / 11	66 / 13 / 11	65 / 13 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	36 / 42 / 33	36 / 42 / 32	36 / 42 / 30	35 / 42 / 28	34 / 42 / 25	33 / 42 / 24

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Vision-60 T (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPRAY VISION-60 T**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Vision-60 T characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopray Vision-60 T (Heat strengthened)



We

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Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision-60 T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopray Vision-60 T Heat strengthened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	66 / 15 / 11	66 / 15 / 11	65 / 15 / 11	64 / 15 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	39 / 41 / 30	38 / 41 / 26	37 / 41 / 23	36 / 41 / 21

Brussels
25th of June 2010

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopray Vision-60 T (Thermally toughened or Heat soaked thermally toughened)



We

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Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPRAY VISION-60 T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Stopray Vision-60 T Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	66 / 15 / 11	66 / 15 / 11	65 / 15 / 11	64 / 15 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	39 / 41 / 30	38 / 41 / 26	37 / 41 / 23	36 / 41 / 21

Brussels
25th of June 2010

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Carat (annealed)



We

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

Stopray Carat characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	58 / 9 / 11	58 / 9 / 11	58 / 9 / 11	57 / 9 / 11	56 / 9 / 11	56 / 9 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 45 / 28	28 / 45 / 27	27 / 45 / 27	27 / 45 / 23	26 / 45 / 21	26 / 45 / 20

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Carat (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 Carat**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Carat characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	58 / 9 / 11	58 / 9 / 11	58 / 9 / 11	57 / 9 / 11	56 / 9 / 11	56 / 9 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 45 / 28	28 / 45 / 27	27 / 45 / 27	27 / 45 / 23	26 / 45 / 21	26 / 45 / 20

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Carat (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 Carat**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Carat characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	58 / 9 / 11	58 / 9 / 11	58 / 9 / 11	57 / 9 / 11	56 / 9 / 11	56 / 9 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 45 / 28	28 / 45 / 27	27 / 45 / 27	27 / 45 / 23	26 / 45 / 21	26 / 45 / 20

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Vision-50 (annealed)



We

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Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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**

Stopray Vision-50 characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	55 / 17 / 17	55 / 17 / 17	55 / 17 / 16	54 / 17 / 16	53 / 17 / 16	53 / 17 / 16
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	29 / 43 / 35	29 / 43 / 33	28 / 43 / 32	28 / 43 / 29	27 / 43 / 27	27 / 43 / 25

Brussels
 25th of June 2010

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Vision-50 T (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPRAY VISION-50 T**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Vision-50 T characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopray Vision-50 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 **Stopray Vision-50 T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopray Vision-50 T Heat strengthened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 18 / 18	55 / 18 / 18	54 / 18 / 18	54 / 18 / 17
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	32 / 46 / 37	32 / 46 / 34	31 / 46 / 31	30 / 46 / 30

Brussels
25th of June 2010

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Ultravision 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 ULTRAVISION 50**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Ultravision 50 characteristics in :	4 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:			
- U-value (EN 673)	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,02	0,02	0,02
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	54 / 7 / 16	54 / 7 / 16	54 / 7 / 16
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	24 / 47 / 46	24 / 47 / 45	24 / 47 / 44

Brussels
21st of June 2011

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopray Vision-50 T (Thermally toughened or Heat soaked thermally toughened)



We

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Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STOPRAY VISION-50 T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Stopray Vision-50 T Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 18 / 18	55 / 18 / 18	54 / 18 / 18	54 / 18 / 17
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	32 / 46 / 37	32 / 46 / 34	31 / 46 / 31	30 / 46 / 30

Brussels
25th of June 2010

JL. Batkin
Vice-President, Processed Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Galaxy (annealed)**



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Galaxy characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	45 / 14 / 15	44 / 14 / 15	44 / 14 / 15	44 / 14 / 14	44 / 14 / 14	43 / 14 / 14
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 43 / 32	20 / 43 / 31	20 / 43 / 29	20 / 43 / 27	19 / 43 / 25	19 / 43 / 23

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Galaxy (heat strengthened)



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Galaxy**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Galaxy characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	45 / 14 / 15	44 / 14 / 15	44 / 14 / 15	44 / 14 / 14	44 / 14 / 14	43 / 14 / 14
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 43 / 32	20 / 43 / 31	20 / 43 / 29	20 / 43 / 27	19 / 43 / 25	19 / 43 / 23

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Galaxy (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 Galaxy**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Galaxy characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	45 / 14 / 15	44 / 14 / 15	44 / 14 / 15	44 / 14 / 14	44 / 14 / 14	43 / 14 / 14
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 43 / 32	20 / 43 / 31	20 / 43 / 29	20 / 43 / 27	19 / 43 / 25	19 / 43 / 23

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Vision-36 T (annealed)



We

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Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Vision 36-T**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Vision-36 T characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,01	NPD 0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD

Brussels
19th of May 2011

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopray Vision-36 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 **Stopray Vision 36-T**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopray Vision-36 T characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,01	NPD 0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	39 / 31 / 29	38 / 31 / 29
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 55 / 41	20 / 56 / 37

Brussels
19th of May 2011

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopray Vision-36 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 **Stopray Vision 36-T**, intended to be used in buildings and construction works, following **EN 12150-2**

Stopray Vision-36 T characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,01	NPD 0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	39 / 31 / 29	38 / 31 / 29
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 55 / 41	20 / 56 / 37

Brussels
19th of May 2011

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Silver (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Silver**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Silver characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	47 / 42 / 46	47 / 42 / 46	46 / 42 / 45	46 / 42 / 44	45 / 42 / 44	45 / 42 / 43
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	27 / 61 / 52	27 / 61 / 50	27 / 61 / 48	26 / 60 / 44	25 / 60 / 41	25 / 60 / 39

Brussels
 25th of June 2010

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Silver (heat strengthened)



We

AGC Flat Glass Europe
Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Silver**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Silver characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	47 / 42 / 46	47 / 42 / 46	46 / 42 / 45	46 / 42 / 44	45 / 42 / 44	45 / 42 / 43
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	27 / 61 / 52	27 / 61 / 50	27 / 61 / 48	26 / 60 / 44	25 / 60 / 41	25 / 60 / 39

Brussels
 25th of June 2010

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Silver (Thermally toughened or Heat soaked thermally toughened)



We

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Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Silver**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Silver characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	47 / 42 / 46	47 / 42 / 46	46 / 42 / 45	46 / 42 / 44	45 / 42 / 44	45 / 42 / 43
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	27 / 61 / 52	27 / 61 / 50	27 / 61 / 48	26 / 60 / 44	25 / 60 / 41	25 / 60 / 39

Brussels
 25th of June 2010

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Cristal (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Cristal**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Cristal characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,06	0,06	0,06	0,06	0,06	0,06
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	69 / 6 / 14	68 / 6 / 14	68 / 6 / 14	67 / 6 / 14	67 / 6 / 14	66 / 6 / 13
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	45 / 31 / 28	44 / 31 / 27	44 / 31 / 26	42 / 31 / 24	41 / 31 / 23	40 / 30 / 21

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Cristal (heat strengthened)



We

AGC Flat Glass Europe
Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Cristal**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Cristal characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,06	0,06	0,06	0,06	0,06	0,06
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	69 / 6 / 14	68 / 6 / 14	68 / 6 / 14	67 / 6 / 14	67 / 6 / 14	66 / 6 / 13
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	45 / 31 / 28	44 / 31 / 27	44 / 31 / 26	42 / 31 / 24	41 / 31 / 23	40 / 30 / 21

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Cristal (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 Cristal**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Cristal characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,06	0,06	0,06	0,06	0,06	0,06
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	69 / 6 / 14	68 / 6 / 14	68 / 6 / 14	67 / 6 / 14	67 / 6 / 14	66 / 6 / 13
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	45 / 31 / 28	44 / 31 / 27	44 / 31 / 26	42 / 31 / 24	41 / 31 / 23	40 / 30 / 21

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Neutral (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Neutral**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Neutral characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,10	0,10	0,10	0,10	0,10	0,10
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 24 / 10	56 / 24 / 10	55 / 24 / 10	55 / 24 / 10	54 / 24 / 9	53 / 24 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	44 / 31 / 18	43 / 31 / 17	42 / 31 / 16	40 / 31 / 15	39 / 31 / 14	38 / 31 / 13

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Neutral (heat strengthened)



We

AGC Flat Glass Europe
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Neutral**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Neutral characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,10	0,10	0,10	0,10	0,10	0,10
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 24 / 10	56 / 24 / 10	55 / 24 / 10	55 / 24 / 10	54 / 24 / 9	53 / 24 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	44 / 31 / 18	43 / 31 / 17	42 / 31 / 16	40 / 31 / 15	39 / 31 / 14	38 / 31 / 13

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Neutral (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 Neutral**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Neutral characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,10	0,10	0,10	0,10	0,10	0,10
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 24 / 10	56 / 24 / 10	55 / 24 / 10	55 / 24 / 10	54 / 24 / 9	53 / 24 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	44 / 31 / 18	43 / 31 / 17	42 / 31 / 16	40 / 31 / 15	39 / 31 / 14	38 / 31 / 13

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Elite on Clearvision (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Elite on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	77 / 9 / 10	77 / 9 / 10	77 / 9 / 10	77 / 9 / 10	76 / 9 / 10	76 / 9 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	44 / 38 / 35	44 / 38 / 35	44 / 38 / 35	44 / 38 / 34	44 / 38 / 33	44 / 38 / 33

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Elite on Clearvision (heat strengthened)



We

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Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Elite on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Elite on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	77 / 9 / 10	77 / 9 / 10	77 / 9 / 10	77 / 9 / 10	76 / 9 / 10	76 / 9 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	44 / 38 / 35	44 / 38 / 35	44 / 38 / 35	44 / 38 / 34	44 / 38 / 33	44 / 38 / 33

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Elite on Clearvision (Thermally toughened or Heat
soaked thermally toughened)



We

AGC Flat Glass Europe
Division Raw Glass Products
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Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Elite on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	77 / 9 / 10	77 / 9 / 10	77 / 9 / 10	77 / 9 / 10	76 / 9 / 10	76 / 9 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	44 / 38 / 35	44 / 38 / 35	44 / 38 / 35	44 / 38 / 34	44 / 38 / 33	44 / 38 / 33

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Safir 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 Safir on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Safir on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	70 / 13 / 11	70 / 13 / 11	70 / 13 / 11	69 / 13 / 11	69 / 13 / 11	69 / 13 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 42 / 38	38 / 42 / 38	38 / 42 / 37	37 / 42 / 37	37 / 42 / 36	37 / 42 / 35

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Safir 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 Safir on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Safir on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	70 / 13 / 11	70 / 13 / 11	70 / 13 / 11	69 / 13 / 11	69 / 13 / 11	69 / 13 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 42 / 38	38 / 42 / 38	38 / 42 / 37	37 / 42 / 37	37 / 42 / 36	37 / 42 / 35

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Safir on Clearvision (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 Safir on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Safir on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	70 / 13 / 11	70 / 13 / 11	70 / 13 / 11	69 / 13 / 11	69 / 13 / 11	69 / 13 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 42 / 38	38 / 42 / 38	38 / 42 / 37	37 / 42 / 37	37 / 42 / 36	37 / 42 / 35

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Clearvision-50 (annealed)



We

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 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Clearvision-50**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Clearvision-50 characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56/17/17	56/17/17	56/17/17	56/17/17	56/17/17	56/17/17
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30/43/42	30/43/41	30/43/41	30/43/40	30/43/39	30/43/38

Brussels
 25th of June 2010

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Galaxy on Clearvision (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Galaxy on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 43 / 39	21 / 43 / 38	21 / 43 / 38	21 / 43 / 37	21 / 43 / 36	21 / 43 / 35

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Galaxy on Clearvision (heat strengthened)



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Galaxy on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 43 / 39	21 / 43 / 38	21 / 43 / 38	21 / 43 / 37	21 / 43 / 36	21 / 43 / 35

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Galaxy on Clearvision (Thermally toughened or Heat soaked thermally toughened)



We

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Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Galaxy on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Galaxy on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15	45 / 14 / 15
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 43 / 39	21 / 43 / 38	21 / 43 / 38	21 / 43 / 37	21 / 43 / 36	21 / 43 / 35

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Silver on Clearvision (annealed)



We

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Stopray Silver on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	48/42/48	48/42/48	48/42/48	48/42/48	47/42/47	47/42/47
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	29/61/63	29/61/62	29/61/61	29/61/60	28/61/58	28/61/57

Brussels
 25th of June 2010

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Silver on Clearvision (heat strengthened)



We

AGC Flat Glass Europe
Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Silver on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Silver on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	48/42/48	48/42/48	48/42/48	48/42/48	47/42/47	47/42/47
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	29/61/63	29/61/62	29/61/61	29/61/60	28/61/58	28/61/57

Brussels
 25th of June 2010

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Silver on Clearvision (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 Silver on Clearvision**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Silver on Clearvision characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	48/42/48	48/42/48	48/42/48	48/42/48	47/42/47	47/42/47
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	29/61/63	29/61/62	29/61/61	29/61/60	28/61/58	28/61/57

Brussels
 25th of June 2010

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



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



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Lime 61 T characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



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



We

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Division Processed Glass Products
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Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Lime 61 T characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,01	NPD 0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	68 / 6 / 6	63 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	34 / 38 / 9	30 / 38 / 7

Brussels
25th of June 2010


JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopray Lime 61 T Thermally toughened or Heat soaked thermally toughened



We

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Division Processed Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Lime 61 T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Stopray Lime 61 T characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	68 / 6 / 6	63 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	34 / 38 / 9	30 / 38 / 7

Brussels
 25th of June 2010

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Emeraldalda (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
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 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Emeraldalda characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 42 / 36	41 / 42 / 34	40 / 41 / 32	37 / 41 / 28	34 / 41 / 25
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	22 / 61 / 27	21 / 61 / 23	19 / 60 / 20	17 / 60 / 16	15 / 60 / 14

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Emeraldalda (heat strengthened)



We

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 Chaussée de La Hulpe 166 - B 1170 Brussels
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Emeraldalda**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Emeraldalda characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 42 / 36	41 / 42 / 34	40 / 41 / 32	37 / 41 / 28	34 / 41 / 25
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	22 / 61 / 27	21 / 61 / 23	19 / 60 / 20	17 / 60 / 16	15 / 60 / 14

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Emeraldalda (Thermally toughened or Heat soaked
thermally toughened)



We

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Stopray Emeraldalda characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 42 / 36	41 / 42 / 34	40 / 41 / 32	37 / 41 / 28	34 / 41 / 25
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	22 / 61 / 27	21 / 61 / 23	19 / 60 / 20	17 / 60 / 16	15 / 60 / 14

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Selva (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Selva characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,06	0,06	0,06	0,06	0,06
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	60 / 6 / 12	58 / 6 / 11	56 / 6 / 11	52 / 6 / 10	48 / 5 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	32 / 30 / 12	29 / 30 / 10	27 / 30 / 9	23 / 30 / 8	21 / 30 / 7

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Selva (heat strengthened)



We

AGC Flat Glass Europe
Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Selva**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Selva characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,06	0,06	0,06	0,06	0,06
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	60 / 6 / 12	58 / 6 / 11	56 / 6 / 11	52 / 6 / 10	48 / 5 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	32 / 30 / 12	29 / 30 / 10	27 / 30 / 9	23 / 30 / 8	21 / 30 / 7

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Selva (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 Selva**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Selva characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,06	0,06	0,06	0,06	0,06
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	60 / 6 / 12	58 / 6 / 11	56 / 6 / 11	52 / 6 / 10	48 / 5 / 9
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	32 / 30 / 12	29 / 30 / 10	27 / 30 / 9	23 / 30 / 8	21 / 30 / 7

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Oasis (annealed)



We

AGC Flat Glass Europe
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Oasis**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Oasis characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	66 / 9 / 8	64 / 9 / 8	61 / 8 / 8	57 / 8 / 7	53 / 8 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 37 / 11	30 / 37 / 9	28 / 37 / 8	25 / 37 / 6	22 / 37 / 6

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Oasis (heat strengthened)



We

AGC Flat Glass Europe

Division Raw Glass Products

Chaussée de La Hulpe 166 - B 1170 Brussels

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

Stopray Oasis characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	66 / 9 / 8	64 / 9 / 8	61 / 8 / 8	57 / 8 / 7	53 / 8 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 37 / 11	30 / 37 / 9	28 / 37 / 8	25 / 37 / 6	22 / 37 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Oasis (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 Oasis**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Oasis characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	66 / 9 / 8	64 / 9 / 8	61 / 8 / 8	57 / 8 / 7	53 / 8 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 37 / 11	30 / 37 / 9	28 / 37 / 8	25 / 37 / 6	22 / 37 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Aquamarine (annealed)



We

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Division Raw Glass Products
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 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Aquamarine characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	72 / 8 / 10	69 / 8 / 10	66 / 8 / 9	61 / 7 / 9	56 / 7 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	39 / 30 / 11	36 / 30 / 10	23 / 30 / 8	28 / 30 / 7	24 / 30 / 6

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Aquamarine (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 Aquamarine**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Aquamarine characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	72 / 8 / 10	69 / 8 / 10	66 / 8 / 9	61 / 7 / 9	56 / 7 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	39 / 30 / 11	36 / 30 / 10	23 / 30 / 8	28 / 30 / 7	24 / 30 / 6

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Aquamarine (Thermally toughened or Heat soaked
thermally toughened)



We

AGC Flat Glass Europe
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Aquamarine**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Aquamarine characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	72 / 8 / 10	69 / 8 / 10	66 / 8 / 9	61 / 7 / 9	56 / 7 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	39 / 30 / 11	36 / 30 / 10	23 / 30 / 8	28 / 30 / 7	24 / 30 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Bright Sepia (annealed)



We

AGC Flat Glass Europe
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Bright Sepia**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Bright Sepia characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 41 / 24	30 / 41 / 20	27 / 41 / 17	22 / 41 / 13	18 / 41 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	20 / 60 / 31	18 / 60 / 26	16 / 60 / 22	14 / 60 / 17	11 / 60 / 13

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Bright Sepia (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 Bright Sepia**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Bright Sepia characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 41 / 24	30 / 41 / 20	27 / 41 / 17	22 / 41 / 13	18 / 41 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	20 / 60 / 31	18 / 60 / 26	16 / 60 / 22	14 / 60 / 17	11 / 60 / 13

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Bright Sepia (Thermally toughened or Heat soaked
thermally toughened)



We

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Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Bright Sepia characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 41 / 24	30 / 41 / 20	27 / 41 / 17	22 / 41 / 13	18 / 41 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	20 / 60 / 31	18 / 60 / 26	16 / 60 / 22	14 / 60 / 17	11 / 60 / 13

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Sienna (annealed)



We

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

Stopray Sienna characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	52 / 8 / 7	47 / 8 / 6	42 / 8 / 6	34 / 7 / 5	28 / 7 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 37 / 20	27 / 37 / 17	24 / 37 / 15	20 / 37 / 12	16 / 37 / 9

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Sienna (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 Sienna**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Sienna characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	52 / 8 / 7	47 / 8 / 6	42 / 8 / 6	34 / 7 / 5	28 / 7 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 37 / 20	27 / 37 / 17	24 / 37 / 15	20 / 37 / 12	16 / 37 / 9

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Sienna (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 Sienna**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Sienna characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	52 / 8 / 7	47 / 8 / 6	42 / 8 / 6	34 / 7 / 5	28 / 7 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 37 / 20	27 / 37 / 17	24 / 37 / 15	20 / 37 / 12	16 / 37 / 9

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Topaz (annealed)



We

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

Stopray topaz characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 7 / 8	51 / 7 / 7	45 / 7 / 7	37 / 6 / 6	30 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	40 / 30 / 18	36 / 30 / 15	32 / 30 / 13	27 / 30 / 11	22 / 30 / 9

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Topaz (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 Topaz**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray topaz characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 7 / 8	51 / 7 / 7	45 / 7 / 7	37 / 6 / 6	30 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	40 / 30 / 18	36 / 30 / 15	32 / 30 / 13	27 / 30 / 11	22 / 30 / 9

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Topaz (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 Topaz**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray topaz characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 7 / 8	51 / 7 / 7	45 / 7 / 7	37 / 6 / 6	30 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	40 / 30 / 18	36 / 30 / 15	32 / 30 / 13	27 / 30 / 11	22 / 30 / 9

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Titanium 37 T (annealed)



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Titanium 37 T**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Titanium 37 T characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD NPD	NPD NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopray Titanium 37 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 **Stopray Titanium 37 T heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopray Titanium 37 T characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,01	NPD 0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	41 / 5 / 5	32 / 4 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	25 / 38 / 13	20 / 37 / 10

Brussels
25th of June 2010

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopray Titanium 37 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 **Stopray Titanium 37 T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Stopray Titanium 37 T characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,01	NPD 0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	41 / 5 / 5	32 / 4 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	25 / 38 / 13	20 / 37 / 10

Brussels
25th of June 2010

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Granit Grey (annealed)



We

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

Stopray Granit Grey characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	30 / 41 / 20	27 / 41 / 17	23 / 41 / 14	18 / 41 / 10	14 / 41 / 8	11 / 41 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	19 / 60 / 29	17 / 60 / 24	15 / 60 / 20	12 / 60 / 14	10 / 60 / 11	8 / 60 / 9

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Granit 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 **Stopray Granit Grey**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Granit Grey characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	30 / 41 / 20	27 / 41 / 17	23 / 41 / 14	18 / 41 / 10	14 / 41 / 8	11 / 41 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	19 / 60 / 29	17 / 60 / 24	15 / 60 / 20	12 / 60 / 14	10 / 60 / 11	8 / 60 / 9

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Granit Grey (Thermally toughened or Heat soaked
thermally toughened)



We

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Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Granit Grey characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	30 / 41 / 20	27 / 41 / 17	23 / 41 / 14	18 / 41 / 10	14 / 41 / 8	11 / 41 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	19 / 60 / 29	17 / 60 / 24	15 / 60 / 20	12 / 60 / 14	10 / 60 / 11	8 / 60 / 9

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Quartz (annealed)



We

AGC Flat Glass Europe
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Quartz**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Quartz characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	48 / 6 / 6	42 / 6 / 5	37 / 6 / 5	28 / 6 / 5	22 / 6 / 5	17 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 37 / 14	24 / 37 / 12	21 / 37 / 10	16 / 37 / 7	13 / 37 / 6	10 / 37 / 6

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Quartz (heat strengthened)



We

AGC Flat Glass Europe
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Quartz**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Quartz characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	48 / 6 / 6	42 / 6 / 5	37 / 6 / 5	28 / 6 / 5	22 / 6 / 5	17 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 37 / 14	24 / 37 / 12	21 / 37 / 10	16 / 37 / 7	13 / 37 / 6	10 / 37 / 6

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Quartz (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 Quartz**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Quartz characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	1C3	1C3	1C2	1C2	1C1	1C1
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	48 / 6 / 6	42 / 6 / 5	37 / 6 / 5	28 / 6 / 5	22 / 6 / 5	17 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 37 / 14	24 / 37 / 12	21 / 37 / 10	16 / 37 / 7	13 / 37 / 6	10 / 37 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Chroma (annealed)



We

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

Stopray Chroma characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	51 / 7 / 7	45 / 6 / 6	40 / 6 / 6	31 / 6 / 5	24 / 6 / 5	19 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 30 / 16	34 / 30 / 14	30 / 30 / 12	24 / 29 / 9	19 / 29 / 8	15 / 29 / 7

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Chroma (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 Chroma**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Chroma characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	51 / 7 / 7	45 / 6 / 6	40 / 6 / 6	31 / 6 / 5	24 / 6 / 5	19 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 30 / 16	34 / 30 / 14	30 / 30 / 12	24 / 29 / 9	19 / 29 / 8	15 / 29 / 7

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Chroma (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 Chroma**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Chroma characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)	35 (-2, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	51 / 7 / 7	45 / 6 / 6	40 / 6 / 6	31 / 6 / 5	24 / 6 / 5	19 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 30 / 16	34 / 30 / 14	30 / 30 / 12	24 / 29 / 9	19 / 29 / 8	15 / 29 / 7

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Reflex Blue (annealed)



We

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

Stopray Reflex Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 42 / 36	40 / 41 / 32	37 / 41 / 28	34 / 41 / 25
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	22 / 61 / 28	20 / 61 / 21	18 / 60 / 18	16 / 60 / 15

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Reflex 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 **Stopray Reflex Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Reflex Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 42 / 36	40 / 41 / 32	37 / 41 / 28	34 / 41 / 25
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	22 / 61 / 28	20 / 61 / 21	18 / 60 / 18	16 / 60 / 15

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Reflex Blue (Thermally toughened or Heat soaked
thermally toughened)



We

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Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Reflex Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Reflex Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 42 / 36	40 / 41 / 32	37 / 41 / 28	34 / 41 / 25
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	22 / 61 / 28	20 / 61 / 21	18 / 60 / 18	16 / 60 / 15

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Ultramarine (annealed)



We

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

Stopray Ultramarine characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	61 / 12 / 10	56 / 12 / 9	53 / 12 / 9	49 / 12 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 42 / 14	27 / 42 / 10	24 / 41 / 8	22 / 41 / 7

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



**CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Ultramarine (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 Ultramarine**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Ultramarine characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	61 / 12 / 10	56 / 12 / 9	53 / 12 / 9	49 / 12 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 42 / 14	27 / 42 / 10	24 / 41 / 8	22 / 41 / 7

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Ultramarine (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 Ultramarine**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Ultramarine characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	61 / 12 / 10	56 / 12 / 9	53 / 12 / 9	49 / 12 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 42 / 14	27 / 42 / 10	24 / 41 / 8	22 / 41 / 7

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Metal Blue (annealed)



We

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

Stopray Metal Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,04	NPD 0,04	NPD 0,04	NPD 0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	72 / 8 / 10	67 / 8 / 9	62 / 7 / 9	58 / 7 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42 / 30 / 13	36 / 30 / 10	32 / 30 / 8	28 / 30 / 7

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Metal 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 **Stopray Metal Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Metal Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	72 / 8 / 10	67 / 8 / 9	62 / 7 / 9	58 / 7 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42 / 30 / 13	36 / 30 / 10	32 / 30 / 8	28 / 30 / 7

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Metal 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 **Stopray Metal Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Metal Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	72 / 8 / 10	67 / 8 / 9	62 / 7 / 9	58 / 7 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42 / 30 / 13	36 / 30 / 10	32 / 30 / 8	28 / 30 / 7

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



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



We

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

Stopray Indigo 48 T characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD NPD	NPD NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopray Indigo 48 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 **Stopray Indigo 48 T Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopray Indigo 48 T Heat strengthened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,01	NPD 0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	53 / 5 / 6	46 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 38 / 8	23 / 38 / 6

Brussels
25th of August 2010

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopray Indigo 48 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 **STOPRAY INDIGO 48 T Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

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

Brussels
 25th of August 2010

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Blue Night (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Blue Night**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Blue Night characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	25 / 41 / 16	18 / 41 / 11	13 / 41 / 8	10 / 41 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	13 / 60 / 12	9 / 60 / 8	6 / 60 / 6	5 / 60 / 6

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Blue Night (heat strengthened)



We

AGC Flat Glass Europe
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Stopray Blue Night**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Blue Night characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	25 / 41 / 16	18 / 41 / 11	13 / 41 / 8	10 / 41 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	13 / 60 / 12	9 / 60 / 8	6 / 60 / 6	5 / 60 / 6

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Blue Night (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 Blue Night**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Blue Night characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	25 / 41 / 16	18 / 41 / 11	13 / 41 / 8	10 / 41 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	13 / 60 / 12	9 / 60 / 8	6 / 60 / 6	5 / 60 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Deep Blue (annealed)



We

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

Stopray Deep Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	36 / 12 / 6	26 / 11 / 5	19 / 11 / 5	14 / 11 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	17 / 41 / 7	12 / 41 / 5	9 / 41 / 5	7 / 41 / 5

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Deep 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 **Stopray Deep Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Deep Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	36 / 12 / 6	26 / 11 / 5	19 / 11 / 5	14 / 11 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	17 / 41 / 7	12 / 41 / 5	9 / 41 / 5	7 / 41 / 5

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Deep 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 **Stopray Deep Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Deep Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	36 / 12 / 6	26 / 11 / 5	19 / 11 / 5	14 / 11 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	17 / 41 / 7	12 / 41 / 5	9 / 41 / 5	7 / 41 / 5

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Marine Blue (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stopray Marine Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,04	NPD 0,04	NPD 0,04	NPD 0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 6 / 7	31 / 6 / 6	23 / 6 / 5	17 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	23 / 29 / 7	16 / 29 / 5	11 / 29 / 5	8 / 29 / 5

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Marine 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 **Stopray Marine Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Marine Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,04	NPD 0,04	NPD 0,04	NPD 0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 6 / 7	31 / 6 / 6	23 / 6 / 5	17 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	23 / 29 / 7	16 / 29 / 5	11 / 29 / 5	8 / 29 / 5

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopray Marine 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 **Stopray Marine Blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopray Marine Blue characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	43 / 6 / 7	31 / 6 / 6	23 / 6 / 5	17 / 6 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	23 / 29 / 7	16 / 29 / 5	11 / 29 / 5	8 / 29 / 5

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division

Stopsol



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Classic Clear (annealed)



We

AGC Flat Glass Europe
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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**

Stopsol Classic Clear characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,8	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	38 / 34 / 27	38 / 34 / 27	38 / 34 / 27	37 / 34 / 26
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	48 / 29 / 22	47 / 29 / 22	46 / 29 / 21	44 / 28 / 20

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Classic Clear Heat strengthened



We

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Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
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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**

Stopsol Classic Clear Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	38 / 34 / 27	38 / 34 / 27	38 / 34 / 27	37 / 34 / 26
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	48 / 29 / 22	47 / 29 / 22	46 / 29 / 21	44 / 28 / 20

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
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 / 14179-2**

Stopsol Classic Clear Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,8	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	38 / 34 / 27	38 / 34 / 27	38 / 34 / 27	37 / 34 / 26
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	48 / 29 / 22	47 / 29 / 22	46 / 29 / 21	44 / 28 / 20

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
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**

Stopsol Classic Bronze characteristics in :	4 mm	5 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	5,8 0,89	5,8 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	26 / 34 / 15	24 / 34 / 13	22 / 34 / 12
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	35 / 28 / 14	32 / 28 / 12	29 / 28 / 10

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Classic Bronze Heat strengthened



We

AGC Flat Glass Europe
Division Processed Glass Products
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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**

Stopsol Classic Bronze Heat strengthened characteristics in :	4 mm	5 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	5,8 0,89	5,8 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	26 / 34 / 15	24 / 34 / 13	22 / 34 / 12
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	35 / 28 / 14	32 / 28 / 12	29 / 28 / 10

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
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 / 14179-2**

Stopsol Classic Bronze Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	1C3	1C3	1C2
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	5,8	5,8	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	26 / 34 / 15	24 / 34 / 13	22 / 34 / 12
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	35 / 28 / 14	32 / 28 / 12	29 / 28 / 10

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
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**

Stopsol Classic Dark Blue characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	5,7 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	24 / 34 / 14	20 / 28 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 34 / 12	15 / 28 / 8

Brussels
27th of October 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Classic Dark Blue Heat strengthened




We

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Division Processed Glass Products
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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**

Stopsol Classic Dark Blue Heat strengthened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	5,7 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	24 / 34 / 14	20 / 28 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 34 / 12	15 / 28 / 8

Brussels
27th of October 2008


JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
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 / 14179-2**

Stopsol Classic Dark Blue Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	24 / 34 / 14	20 / 28 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	21 / 34 / 12	15 / 28 / 8

Brussels
 27th of October 2008

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
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**

Stopsol Classic Green characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,8	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 34 / 22	32 / 34 / 21	31 / 34 / 20	29 / 34 / 18
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 28 / 13	25 / 28 / 12	22 / 28 / 11	18 / 28 / 9

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Classic Green Heat strengthened




We

AGC Flat Glass Europe
Division Processed Glass Products
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Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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**

Stopsol Classic Green Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	5,8 0,89	5,8 0,89	5,7 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 34 / 22	32 / 34 / 21	31 / 34 / 20	29 / 34 / 18
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 28 / 13	25 / 28 / 12	22 / 28 / 11	18 / 28 / 9

Brussels
01st of September 2006


JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
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 / 14179-2**

Stopsol Classic Green Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:				
- U-value (EN 673)	5,8	5,8	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 34 / 22	32 / 34 / 21	31 / 34 / 20	29 / 34 / 18
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 28 / 13	25 / 28 / 12	22 / 28 / 11	18 / 28 / 9

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Classic 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 CLASSIC GREY**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopsol Classic Grey characteristics in :	4 mm	5 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	5,8	5,8	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	24 / 34 / 13	21 / 34 / 11	19 / 34 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 28 / 13	30 / 28 / 11	27 / 28 / 10

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
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**

Stopsol Classic Grey Heat strengthened characteristics in :	4 mm	5 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	5,8 0,89	5,8 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	24 / 34 / 13	21 / 34 / 11	19 / 34 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 28 / 13	30 / 28 / 11	27 / 28 / 10

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
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 / 14179-2**

Stopsol Classic Grey Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	5,8	5,8	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	24 / 34 / 13	21 / 34 / 11	19 / 34 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 28 / 13	30 / 28 / 11	27 / 28 / 10

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
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**

Stopsol Phoenix Clear characteristics in :	4 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	5.7 0,89	5.7 0,89	5.6 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	67 / 32 / 31	67 / 31 / 30	66 / 31 / 30
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	69 / 25 / 23	67 / 25 / 22	64 / 25 / 21

Brussels
05th of November 2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
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**

Stopsol Phoenix Clear Heat strengthened characteristics in :	4 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	5.7	5.7	5.6
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	67 / 32 / 31	67 / 31 / 30	66 / 31 / 30
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	69 / 25 / 23	67 / 25 / 22	64 / 25 / 21

Brussels
 05th of November 2009

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopsol Phoenix 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 PHOENIX CLEAR Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2/14179-2**

Stopsol Phoenix Clear Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	31 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	5.7	5.7	5.6
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	67 / 32 / 31	67 / 31 / 30	66 / 31 / 30
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	69 / 25 / 23	67 / 25 / 22	64 / 25 / 21

Brussels
 05th of November 2009

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Phoenix 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 PHOENIX GREEN**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopsol Phoenix Green characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	31 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	5,7 0,89	5,6 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	54 / 31 / 22	50 / 31 / 20
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	34 / 23 / 12	28 / 23 / 11

Brussels
05th of November 2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
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**

Stopsol Phoenix Green Heat strengthened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	5,7 0,89	5,6 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	54 / 31 / 22	50 / 31 / 20
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	34 / 23 / 12	28 / 23 / 11

Brussels
05th of November 2009

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopsol Phoenix 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 PHOENIX GREEN Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Stopsol Phoenix Green Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,6
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	54 / 31 / 22	50 / 31 / 20
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	34 / 23 / 12	28 / 23 / 11

Brussels
05th of November 2009

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Phoenix 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 PHOENIX GREY**, intended to be used in buildings and construction works, following **EN 1096-4**

Stopsol Phoenix Grey characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	5,7 0,89	5,6 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 30 / 11	26 / 30 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 23 / 10	30 / 23 / 8

Brussels
05th of November 2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Phoenix 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 PHOENIX GREY Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopsol Phoenix Grey Heat strengthened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	5,7 0,89	5,6 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 30 / 11	26 / 30 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 23 / 10	30 / 23 / 8

Brussels
05th of November 2009

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopsol Phoenix Grey Thermally toughened or Heat soaked thermally toughened



We

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Division Processed Glass Products
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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 / 14179-2**

Stopsol Phoenix Grey Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,6
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	33 / 30 / 11	26 / 30 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 23 / 10	30 / 23 / 8

Brussels
05th of November 2009

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Silverlight PrivaBlue (annealed)



We

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

Stopsol Silverlight PrivaBlue characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	5,7 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	27 / 24 / 8	20 / 24 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	16 / 20 / 6	11 / 20 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
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 PRIVABLU** Heat strengthened, intended to be used in buildings and construction works, following **EN 1863-2**

Stopsol Silverlight PrivaBlue Heat strengthened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	5,7 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	27 / 24 / 8	20 / 24 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	16 / 20 / 6	11 / 20 / 6

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
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 / 14179-2**

Stopsol Silverlight PrivaBlue Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	27 / 24 / 8	20 / 24 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	16 / 20 / 6	11 / 20 / 6

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Stopsol Supersilver Clear (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
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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**

Stopsol Supersilver Clear characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	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
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	64 / 35 / 35	64 / 35 / 34	63 / 35 / 34	62 / 35 / 34	62 / 35 / 33
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	66 / 28 / 25	65 / 28 / 25	64 / 27 / 24	62 / 27 / 23	59 / 27 / 22

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
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**

Stopsol Supersilver Clear Heat strengthened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	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	64 / 35 / 35	64 / 35 / 34	63 / 35 / 34	62 / 35 / 34	62 / 35 / 33
13. Solar energy transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e	66 / 28 / 25	65 / 28 / 25	64 / 27 / 24	62 / 27 / 23	59 / 27 / 22

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
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 / 14179-2**

Stopsol Supersilver Clear Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	5 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	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
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	64 / 35 / 35	64 / 35 / 34	63 / 35 / 34	62 / 35 / 34	62 / 35 / 33
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	66 / 28 / 25	65 / 28 / 25	64 / 27 / 24	62 / 27 / 23	59 / 27 / 22

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
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**

Stopsol Supersilver Green characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	5,7 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	52 / 34 / 25	48 / 34 / 22
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 26 / 14	27 / 26 / 12

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Supersilver 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 SUPERSILVER GREEN Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Stopsol Supersilver Green Heat strengthened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	5,7 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	52 / 34 / 25	48 / 34 / 22
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 26 / 14	27 / 26 / 12

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Stopsol Supersilver 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 SUPERSILVER GREEN Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Stopsol Supersilver Green Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	52 / 34 / 25	48 / 34 / 22
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	33 / 26 / 14	27 / 26 / 12

Brussels
01st of March 2007


JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
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**

Stopsol Supersilver Grey characteristics in :	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	5,8 0,89	5,7 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	34 / 34 / 13	29 / 34 / 11	23 / 34 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 27 / 11	34 / 27 / 10	26 / 26 / 8

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
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**

Stopsol Supersilver Grey Heat strengthened characteristics in :	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	5,8 0,89	5,7 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	34 / 34 / 13	29 / 34 / 11	23 / 34 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 27 / 11	34 / 27 / 10	26 / 26 / 8

Brussels
09th of January 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
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 / 14179-2**

Stopsol Supersilver Grey Thermally toughened or Heat soaked thermally toughened characteristics in :	5 mm	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-1, -2)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:			
- U-value (EN 673)	5,8	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	34 / 34 / 13	29 / 34 / 11	23 / 34 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	38 / 27 / 11	34 / 27 / 10	26 / 26 / 8

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
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**

Stopsol Supersilver Dark Blue characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	41 / 34 / 17	35 / 34 / 14
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 26 / 12	24 / 26 / 10

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Stopsol Supersilver Dark Blue Heat strengthened



We

AGC Flat Glass Europe
Division Processed Glass Products
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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**

Stopsol Supersilver Dark Blue Heat strengthened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	5,7 0,89	5,7 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	41 / 34 / 17	35 / 34 / 14
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 26 / 12	24 / 26 / 10

Brussels
05th of Juli 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
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 / 14179-2**

Stopsol Supersilver Dark Blue Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	5,7	5,7
- Normal emissivity ϵ_n coated side (EN 12898)	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	41 / 34 / 17	35 / 34 / 14
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 26 / 12	24 / 26 / 10

Brussels
 05th of Juli 2007

JL. Batkin
 Vice-President, Processed Glass Division

Stratobel



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel clear (22.x, 33.x)



We

AGC Flat Glass Europe
Division Raw Glass Products
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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**

Stratobel characteristics in :	22.1	22.2	33.1	33.2	33.4
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	P1A-P2A	P3A-P4A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	32 (-1, -3)	33 (-1, -4)	NPD
11. Thermal properties:					
- U-value (EN 673)	5,7	5,7	5,7	5,6	5,5
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	90 / 8 / 8	90 / 8 / 8	89 / 8 / 8	89 / 8 / 8	89 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	79 / 7 / 7	77 / 7 / 7	76 / 7 / 7	74 / 7 / 7	72 / 7 / 7

Brussels
 27th of October 2010

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
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**

Stratobel characteristics in :	44.1	44.2	44.4	44.6	55.1	55.2	55.4
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	P3A-P4A	P5A	NPD	P1A-P2A	P3A-P4A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	34 (-1, -2)	35 (-1, -3)	NPD	35 (-1, -3)	35 (-1, -3)	NPD	36 (-1, -4)
11. Thermal properties:							
- U-value (EN 673)	5,6	5,6	5,5	5,3	5,6	5,5	5,4
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	88 / 8 / 8	88 / 8 / 8	88 / 8 / 8	88 / 8 / 8	87 / 8 / 8	87 / 8 / 8	87 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	73 / 7 / 7	72 / 7 / 7	70 / 7 / 7	69 / 7 / 7	70 / 7 / 7	69 / 7 / 7	67 / 7 / 7

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel clear (66.x, 88.x, 10 10.x)



We

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Division Raw Glass Products
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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**

Stratobel characteristics in :	66.1	66.2	66.4	66.6	88.2	88.4	10 10.2	10 10.4
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	P3A-P4A	P5A	P1A-P2A	P3A-P4A	P1A-P2A	P3A-P4A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	36 (-1, -3)	37 (-1, -4)	NPD	39 (-1, -3)	NPD	NPD	NPD
11. Thermal properties:								
- U-value (EN 673)	5,5	5,4	5,3	5,2	5,3	5,2	5,2	5,1
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	86 / 8 / 8	86 / 8 / 8	86 / 8 / 8	86 / 8 / 8	84 / 8 / 8	84 / 8 / 8	82 / 7 / 7	82 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	68 / 7 / 7	66 / 7 / 7	65 / 6 / 6	64 / 6 / 6	62 / 6 / 6	60 / 6 / 6	58 / 6 / 6	56 / 6 / 6

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Linea Azzurra (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 LINEA AZZURRA**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel Linea Azzurra characteristics in :	88.2	88.4	10 10.2	10 10.4
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P1A-P2A	P3A-P4A	P1A-P2A	P3A-P4A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	39 (-1, -3)	NPD	NPD	NPD
11. Thermal properties:				
- U-value (EN 673)	5,3	5,2	5,2	5,1
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	82 / 7 / 7	82 / 7 / 7	80 / 7 / 7	80 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	55 / 6 / 6	53 / 6 / 6	50 / 6 / 6	49 / 6 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Top N



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL TOP N**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel Top N characteristics in :	33.1 Top N	33.2 Top N	44.1 Top N	44.2 Top N	66.1 Top N	66.2 Top N
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	33 (-1, -4)	34 (-1, -2)	35 (-1, -3)	NPD	36 (-1, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,04	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	86 / 6 / 8	86 / 6 / 8	85 / 6 / 8	85 / 6 / 8	84 / 6 / 8	83 / 6 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	60 / 25 / 18	59 / 25 / 17	58 / 25 / 17	58 / 25 / 16	56 / 24 / 15	56 / 24 / 14

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Top N+



We

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Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL TOP N+**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel Top N+ characteristics in :	22.1 Top N+	22.2 Top N+	33.1 Top N+	33.2 Top N+	44.1 Top N+	44.2 Top N+	66.1 Top N+	66.2 Top N+
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	32 (-1, -3)	33 (-1, -4)	34 (-1, -2)	35 (-1, -3)	NPD	36 (-1, -3)
11. Thermal properties:								
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87/6/8	87/6/8	86/6/7	86/6/7	85/6/7	85/6/7	83/6/7	83/6/7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	57/29/22	56/29/21	55/29/20	54/29/19	53/29/18	53/29/18	50/29/16	50/29/15

Brussels
 27th of October 2010

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Tri



We

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

Stratobel Tri characteristics in :	22.1 Tri	22.2 Tri	33.1 Tri	33.2 Tri	44.1 Tri	44.2 Tri	55.2 Tri	66.2 Tri
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	32 (-1, -3)	33 (-1, -4)	34 (-1, -2)	35 (-1, -3)	NPD	36 (-1, -3)
11. Thermal properties:								
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,07	0,07	0,07	0,07	0,07	0,07	0,07	0,07
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	88/7/8	88/7/8	87/7/8	87/7/8	86/7/8	86/6/8	84/6/8	84/6/8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	68/17/13	68/17/12	66/17/12	65/17/11	64/16/11	63/16/11	60/16/10	59/16/10

Brussels
 27th of October 2010

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Top 1.0



We

AGC Flat Glass Europe
Division Raw Glass Products
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 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL Top 1.0**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel Top 1.0 characteristics in :	33.1 Top 1.0	33.2 Top 1.0	44.1 Top 1.0	44.2 Top 1.0	66.1 Top 1.0	66.2 Top 1.0
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	33 (-1, -4)	34 (-1, -2)	35 (-1, -3)	NPD	36 (-1, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	76 / 15 / 17	76 / 15 / 17	75 / 15 / 17	75 / 15 / 17	74 / 14 / 16	74 / 14 / 16
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	45 / 42 / 30	44 / 42 / 29	44 / 42 / 28	43 / 42 / 27	42 / 42 / 24	42 / 42 / 23

Brussels
 11th of June 2009

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel I-Top



We

AGC Flat Glass Europe
Division Raw Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL I-TOP**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel I-Top characteristics in :	33.1 I-Top	33.2 I-Top	44.1 I-Top	44.2 I-Top	55.1 I-Top	55.2 I-Top	66.2 I-Top
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	33 (-1, -4)	34 (-1, -2)	35 (-1, -3)	35 (-1, -3)	NPD	36 (-1, -3)
11. Thermal properties:							
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	86 / 6 / 7	86 / 6 / 7	85 / 5 / 7	85 / 5 / 7	84 / 5 / 7	84 / 5 / 7	83 / 5 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	54 / 28 / 19	54 / 28 / 18	52 / 28 / 17	52 / 28 / 16	51 / 28 / 15	50 / 28 / 14	48 / 28 / 13

Brussels
 28^h of April 2011

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Energy N



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL ENERGY N**,
intended to be used in buildings and construction works, following **EN 14449**

Stratobel Energy N characteristics in :	33.1 Energy N	33.2 Energy N	44.1 Energy N	44.2 Energy N	66.1 Energy N	66.2 Energy N
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	33 (-1, -4)	34 (-1, -2)	35 (-1, -3)	NPD	36 (-1, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	78/6/7	77/ 6/7	77/6/7	77/6/7	75/6/7	75/6/7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42/38/24	42/38/23	41/38/22	41/38/21	39/38/18	39/38/18

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Light



We

AGC Flat Glass Europe
Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL LIGHT**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel Light characteristics in :	33.1 Light	44.1 Light
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	2B2	2B2
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	34 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n (EN 12898)	NPD 0,01	NPD 0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	71/19/21	71/19/21
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	41/43/29	40/43/26

Brussels
8th of February 2011

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel G



We

AGC Flat Glass Europe
Division Raw Glass Products
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL G**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel G characteristics in :	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)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	33 (-1, -4)	34 (-1, -2)	35 (-1, -3)	NPD	36 (-1, -3)
11. Thermal properties:						
- U-value (EN 673)	3,7	3,6	3,6	3,6	3,6	3,6
- Normal emissivity ϵ_n (EN 12898)	0,15	0,15	0,15	0,15	0,15	0,15
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	80 / 12 / 11	80 / 12 / 11	80 / 11 / 11	79 / 11 / 10	78 / 11 / 10	77 / 11 / 10
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	65 / 12 / 9	64 / 12 / 9	63 / 12 / 9	62 / 11 / 9	58 / 11 / 9	58 / 11 / 8

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel (Burglar resistant)



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**

Stratobel characteristics in :	002-2	303-3	402-3	502-1	502-2	802-2	803-5	905-8
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P5A	P7B	P5A	P6B	P6B	P6B	P8B	P8B
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	35 (-1, -3)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties:								
- U-value (EN 673)	5,4	5,0	5,2	5,1	5,1	5,1	4,8	4,3
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	86 / 8 / 8	82 / 7 / 7	84 / 8 / 8	84 / 8 / 8	84 / 8 / 8	82 / 7 / 7	78 / 7 / 7	69 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	69 / 7 / 7	55 / 6 / 6	64 / 6 / 6	63 / 6 / 6	63 / 6 / 6	60 / 6 / 6	51 / 6 / 6	38 / 5 / 5

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel (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**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel characteristics in :	003-2	003-5	004-3
Notified Body / Certificate Number:	0749 / 0749-CPD-143 0336 / 0336-CPD-9265C	0749 / 0749-CPD-143 0336 / 0336-CPD-9265C	0749 / 0749-CPD-143 0336 / 0336-CPD-9265C
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR1 S	BR1 NS	BR3 S
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	P6B
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U-value (EN 673)	5,2	5,2	4,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	83 / 8 / 8	83 / 8 / 8	79 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	59 / 6 / 6	59 / 6 / 6	49 / 6 / 6

Brussels
 18th of October 2010

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel (Bullet resistant)



We

AGC Flat Glass Europe
Division Raw Glass Products
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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**

Stratobel characteristics in :	103-3	104-1	402-1
Certificate Number:	0749 / 0749-CPD-143	0749 / 0749-CPD-143	0749 / 0749-CPD-143
Notified Body :	0336 / 0336-CPD-9265C	0336 / 0336-CPD-9265C	0336 / 0336-CPD-9265C
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR2 S	BR2 NS	BR1 S
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P6B	P6B	P4A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U-value (EN 673)	4,9	4,8	5,3
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	84 / 8 / 8	78 / 7 / 7	85 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	58 / 6 / 6	49 / 6 / 6	66 / 6 / 6

Brussels
 21th of February 2010

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel (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**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel characteristics in :	504-4	603-1	703-3
Certificate Number:	0749 / 0749-CPD-143	0749 / 0749-CPD-143	0749 / 0749-CPD-143
Notified Body :	0336 / 0336-CPD-9265C	0336 / 0336-CPD-9265C	0336 / 0336-CPD-9265C
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR5 S/SG2 S	BR3S	BR2 S
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P8B	P6B	P3A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U-value (EN 673)	4,5	4,9	5,1
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	74 / 7 / 7	80 / 7 / 7	80 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	45 / 5 / 5	52 / 6 / 6	53 / 6 / 6

Brussels
 18th of October 2010

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel (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**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel characteristics in :	704-3	803-6	902-4
Certificate Number :	0749 / 0749-CPD-143	0749 / 0749-CPD-143	0749 / 0749-CPD-143
Notified Body :	0336 / 0336-CPD-9265C	0336 / 0336-CPD-9265C	0336 / 0336-CPD-9265C
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR3 NS	BR2 S	BR1 S
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P6B	NPD	P2A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U-value (EN 673)	4,6	4,9	5,3
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): τ_v / ρ_v / ρ'_v	74 / 7 / 7	79 / 7 / 7	83 / 8 / 8
13. Solar energy transmission/reflection (EN 410): τ_e / ρ_e / ρ'_e	45 / 5 / 5	51 / 6 / 6	60 / 6 / 6

Brussels
 18th of October 2010

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel (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**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel characteristics in :	902-5
Certificate Number :	0749 / 0749-CPD-143
Notified Body :	0336 / 0336-CPD-9265C
1. Resistance to fire (EN 13501-2)	NPD
2. Reaction to fire (EN 13501-1)	NPD
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	BR1 S
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	P3A
7. Pendulum body impact resistance (EN 12600)	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD
11. Thermal properties:	
- U-value (EN 673)	5,3
- Normal emissivity ϵ_n (EN 12898)	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	83 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	60 / 6 / 6

Brussels
18th of October 2010

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel (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**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel characteristics in :	003-1	009-1	304-6
Certificate Number:	0336-CPD-9265C	0336-CPD-9265C	0336-CPD-9265C
Notified Body :	0336	0336	0336
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR2 S	BR7 NS	BR4 S / SG1 S
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P2A	P8B	P6B
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U-value (EN 673)	5,1	3,6	4,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	83 / 8 / 8	62 / 6 / 6	78 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	58 / 6 / 6	27 / 5 / 5	48 / 6 / 6

Brussels
 07th of February 2008

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel (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**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel characteristics in :	408-1	802-5	806-2
Certificate Number:	0336-CPD-9265C	0336-CPD-9265C	0336-CPD-9265C
Notified Body :	0336	0336	0336
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR6 NS	BR1 NS	BR5 NS
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P8B	P2A	P7B
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U-value (EN 673)	3,9	5,2	4,3
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	61 / 6 / 6	84 / 8 / 8	69 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 5 / 5	60 / 6 / 6	36 / 5 / 5

Brussels
 07th of February 2008

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Double Glazing Unit – EN 1279-5
Declaration of performances
Stratobel (Bullet resistant) in DGU



We

AGC Flat Glass Europe
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 Chaussée de La Hulpe 166 - B 1170 Brussels
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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 1279-5**

Stratobel characteristics in :	1207-1	3209-1	4207-1
Certificate Number:	0749-CPD-143	0749-CPD-143	0749-CPD-143
Notified Body :	0749	0749	0749
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR4 NS / BR6 S	BR6 NS	BR5 NS
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P4A	P6B	NPD
7. Pendulum body impact resistance (EN 12600)	1B1 / 1B1	1B1 / 1B1	1B1 / 1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U-value (EN 673)	2,6	2,4	2,5
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	65 / 12 / 12	58 / 11 / 11	65 / 12 / 12
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	34 / 8 / 8	27 / 7 / 7	33 / 8 / 8

Brussels
 07th of February 2008

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Double Glazing Unit – EN 1279-5
Declaration of performances
Stratobel (Bullet resistant) in DGU



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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 1279-5**

Stratobel characteristics in :	6208-1	8209-1	9207-1
Certificate Number:	0749-CPD-143	0749-CPD-143	0749-CPD-143
Notified Body :	0749	0749	0749
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR7 S	BR7 NS	SG1 NS
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P8B	P8B	P4A
7. Pendulum body impact resistance (EN 12600)	1B1 / 1B1	1B1 / 1B1	1B1 / 1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U-value (EN 673)	2,4	2,3	2,5
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	61 / 11 / 11	57 / 11 / 11	62 / 12 / 12
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	29 / 8 / 8	25 / 7 / 7	31 / 8 / 8

Brussels
 07th of February 2008

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Double Glazing Unit – EN 1279-5
Declaration of performances
Stratobel (Bullet resistant) in DGU



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 1279-5**

Stratobel characteristics in :	9208-1
Certificate Number:	0749-CPD-143
Notified Body :	0749
1. Resistance to fire (EN 13501-2)	NPD
2. Reaction to fire (EN 13501-1)	NPD
3. External fire performances	NPD
4. Bullet resistance (EN 1063)	SG2 NS
5. Explosion resistance (EN 13541)	NPD
6. Burglar resistance (EN 356)	P8B
7. Pendulum body impact resistance (EN 12600)	1B1 / 1B1
8. Resistance against sudden temperature change and temperature differentials	NPD
9. Wind, snow, permanent and imposed load resistance	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	2,3 NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	61 / 11 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	28 / 7 / 7

Brussels
07th of February 2008

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Color Standard



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL COLOR STANDARD**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel color standard characteristics in :	33.1 Blue green 3773	33.1 Bronze 6542	33.1 French Bronze 5538	33.1 Medium bronze 3628	33.1 Grey 6544
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	2B2	2B2	2B2	2B2	2B2
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	32 (-1, -3)	32 (-1, -3)	32 (-1, -3)	32 (-1, -3)
11. Thermal properties:					
- U-value (EN 673)	5,7	5,7	5,7	5,7	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	73 / 7 / 7	54 / 6 / 6	58 / 6 / 6	29 / 5 / 5	42 / 5 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	68 / 6 / 6	53 / 6 / 6	57 / 6 / 6	32 / 5 / 5	48 / 5 / 5

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Color Standard



We

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Stratobel color standard characteristics in :	33.1 Mat 2165	33.2 Mat 2165	44.1 Mat 2165	44.2 Mat 2165
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	2B2	1B1	2B2	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	33 (-1, -4)	34 (-1, -2)	35 (-1, -3)
11. Thermal properties:				
- U-value (EN 673)	5,7	5,6	5,6	5,5
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	67 / 12 / 12	68 / 12 / 12	66 / 12 / 12	67 / 12 / 12
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	61 / 10 / 10	61 / 10 / 10	59 / 10 / 10	59 / 10 / 10

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Color Rainnbow



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL COLOR RAINBOW**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel color rainbow characteristics in :	33.1 Vanceva 1 Coral Rose	33.1 Vanceva 2 Aquamarine	33.1 Vanceva 3 Smoke Grey	33.1 Vanceva 4 Sahara Sun	33.1 Vanceva 5 Ruby Red
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	2B2	2B2	2B2	2B2	2B2
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	32 (-1, -3)	32 (-1, -3)	32 (-1, -3)	32 (-1, -3)
11. Thermal properties:					
- U-value (EN 673)	5,7	5,7	5,7	5,7	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	77 / 7 / 7	79 / 7 / 7	78 / 7 / 7	77 / 7 / 7	48 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	73 / 7 / 7	71 / 7 / 7	69 / 7 / 7	62 / 6 / 6	63 / 6 / 6

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Color Rainbow



We

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Stratobel color rainbow characteristics in :	33.1 Vanceva 6 Sapphire	33.1 Vanceva 7 Midnight	33.1 Vanceva 8 Golden light	33.1 Vanceva 9 Artic Snow	44.1 Vanceva 9 Artic Snow
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	2B2	2B2	2B2	2B2	2B2
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	32 (-1, -3)	32 (-1, -3)	32 (-1, -3)	34 (-1, -2)
11. Thermal properties:					
- U-value (EN 673)	5,7	5,7	5,7	5,7	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	52 / 6 / 6	50 / 5 / 5	86 / 8 / 8	67 / 12 / 12	66 / 12 / 12
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	57 / 6 / 6	48 / 5 / 5	70 / 7 / 7	61 / 10 / 10	59 / 10 / 10

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Color Rainbow



We

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Stratobel color rainbow characteristics in :	33.1 Vanceva A Cool White	44.1 Vanceva A Cool White	33.2 Vanceva C003 Pure White	33.1 Vanceva C Deep Red	33.1 Vanceva D True Blue
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	P1A-P2A	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	2B2	2B2	1B1	2B2	2B2
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	32 (-1, -3)	34 (-1, -2)	NPD	32 (-1, -3)	32 (-1, -3)
11. Thermal properties:					
- U-value (EN 673)	5,7	5,7	5,7	5,7	5,7
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	83 / 9 / 9	82 / 9 / 9	8 / 63 / 63	16 / 5 / 5	14 / 4 / 4
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	72 / 8 / 8	70 / 8 / 8	8 / 47 / 47	35 / 5 / 5	41 / 5 / 5

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division

Stratobel EVA



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel EVA



We

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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**

Stratobel EVA characteristics with tempered components:	55.2T	66.2T	68.2T	88.2T	10 10.3T	12 12.3T	15 15.4T
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties:							
- U-value (EN 673)	5,5	5,4	5,4	5,3	5,2	5,1	4,9
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	86 / 8 / 8	85 / 8 / 8	84 / 8 / 8	83 / 8 / 8	81 / 7 / 7	80 / 7 / 7	77 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	67 / 7 / 7	65 / 6 / 6	63 / 6 / 6	61 / 6 / 6	55 / 6 / 6	52 / 6 / 6	47 / 6 / 6

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division

Stratobel Impression



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel Impression



We

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 Chaussée de La Hulpe 166 - B 1170 Brussels
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL Impression**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel Impression characteristics:	33.3	44.3	55.3	66.3	88.3	10 10.3
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD	NPD	NPD	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD	NPD

Brussels
 11th of September 2007

JL. Batkin
 Vice-President, Processed Glass Division

Stratobel PC



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel PC (Burglar resistant)



We

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

Stratobel PC characteristics in :	214.541	216.541	219.841
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	P6B	P7B	P8B
7. Pendulum body impact resistance (EN 12600)	1(B)1	1(B)1	1(B)1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties: - U_g -value (EN 673) - Normal emissivity ϵ_n (EN 12898)	5,3 0,89	5,3 0,89	5,1 0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	85 / 8 / 8	84 / 8 / 8	83 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	67 / 7 / 7	65 / 7 / 7	64 / 6 / 6

Brussels
17th of July 2007


JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel PC (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 PC**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel PC characteristics in :	810.361	815.051	819.070	823.860
Certificate Number:	0336-CPD-9265C	0336-CPD-9265C	0336-CPD-9265C	0336-CPD-9265C
Notified Body :	0336	0336	0336	0336
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR1 NS	BR2 NS	BR3 NS	BR4 NS / SG1 NS
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1(B)1	1(B)1	1(B)1	1(B)1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD
11. Thermal properties:				
- U_g -value (EN 673)	5,3	5,3	5,2	5,0
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	85 / 8 / 8	85 / 8 / 8	83 / 8 / 8	80 / 7 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	66 / 6 / 6	65 / 6 / 6	60 / 6 / 6	54 / 6 / 6

Brussels
 17th of July 2007

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel PC (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 PC**, intended to be used in buildings and construction works, following **EN 14449**

Stratobel PC characteristics in :	835.800	841.370	869.600
Certificate Number:	0336-CPD-9265C	0336-CPD-9265C	0336-CPD-9265C
Notified Body :	0336	0336	0336
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	BR5 NS / SG2 NS	BR6 NS	BR7 NS
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1(B)1	1(B)1	1(B)1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD
11. Thermal properties:			
- U_g -value (EN 673)	4,7	4,5	3,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	76 / 7 / 7	74 / 7 / 7	58 / 6 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	46 / 6 / 6	43 / 5 / 5	25 / 5 / 5

Brussels
 17th of July 2007

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Double Glazing Unit – EN 1279-5
Declaration of performances
Stratobel PC (Bullet resistant) in DGU



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOBEL PC**, intended to be used in buildings and construction works, following **EN 1279-5**

Stratobel PC characteristics in :	848i560	890i100
Certificate Number:	0749-CPD-143	0749-CPD-143
Notified Body :	0749	0749
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	BR6 NS	BR7 NS
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1 / 1B1	1B1 / 1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD
11. Thermal properties:		
- U_g -value (EN 673)	2,6	2,3
- Normal emissivity ϵ_n (EN 12898)	NPD	NPD
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	70 / 13 / 13	56 / 11 / 11
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42 / 10 / 10	26 / 7 / 7

Brussels
 17th of July 2007

JL. Batkin
 Vice-President, Processed Glass Division

Stratobel – Other products



CE Marking of Laminated glass – EN 14449
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**

Stratobel (level 3 products) characteristics in :	For 13 characteristics, see www.YourGlass.com/ce
1. Resistance to fire (EN 13501-2)	
2. Reaction to fire (EN 13501-1)	
3. External fire performances	
4. Bullet resistance (EN 1063)	
5. Explosion resistance (EN 13541)	
6. Burglar resistance (EN 356)	
7. Pendulum body impact resistance (EN 12600)	
8. Resistance against sudden temperature change and temperature differentials	
9. Wind, snow, permanent and imposed load resistance	
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	
11. Thermal properties: U-value (EN 673)	
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	

Brussels
08th of November 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel – Other products (level 1)



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**

Stratobel (level 1 products) characteristics in :	
Certificate Number:	0336-CPD-9265C
Notified Body :	0336
1. Resistance to fire (EN 13501-2)	For 13 characteristics, see www.YourGlass.com/ce
2. Reaction to fire (EN 13501-1)	
3. External fire performances	
4. Bullet resistance (EN 1063)	
5. Explosion resistance (EN 13541)	
6. Burglar resistance (EN 356)	
7. Pendulum body impact resistance (EN 12600)	
8. Resistance against sudden temperature change and temperature differentials	
9. Wind, snow, permanent and imposed load resistance	
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	
11. Thermal properties: U-value (EN 673)	
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	

Brussels
08th of November 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Laminated glass – EN 14449
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**

Stratobel (level 3 products) characteristics in :	For 13 characteristics, see www.YourGlass.com/ce
1. Resistance to fire (EN 13501-2)	
2. Reaction to fire (EN 13501-1)	
3. External fire performances	
4. Bullet resistance (EN 1063)	
5. Explosion resistance (EN 13541)	
6. Burglar resistance (EN 356)	
7. Pendulum body impact resistance (EN 12600)	
8. Resistance against sudden temperature change and temperature differentials	
9. Wind, snow, permanent and imposed load resistance	
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	
11. Thermal properties: U-value (EN 673)	
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratobel – Other products (level 1)



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**

Stratobel (level 1 products) characteristics in :	
Certificate Number:	0749-CPD-143
Notified Body :	0749
1. Resistance to fire (EN 13501-2)	For 13 characteristics, see www.YourGlass.com/ce
2. Reaction to fire (EN 13501-1)	
3. External fire performances	
4. Bullet resistance (EN 1063)	
5. Explosion resistance (EN 13541)	
6. Burglar resistance (EN 356)	
7. Pendulum body impact resistance (EN 12600)	
8. Resistance against sudden temperature change and temperature differentials	
9. Wind, snow, permanent and imposed load resistance	
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	
11. Thermal properties: U-value (EN 673)	
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division

Stratophone



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratophone clear (33.x, 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**

Stratophone characteristics in :	33.1	33.2	44.1	44.2	44.4	44.6
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	P3A-P4A	P5A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	35 (-1, -3)	36 (0, -3)	37 (-0, -3)	37 (0, -3)	37 (0, -3)	NPD
11. Thermal properties:						
- U-value (EN 673)	5,7	5,6	5,6	5,6	5,5	5,3
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	89 / 8 / 8	89 / 8 / 8	88 / 8 / 8	88 / 8 / 8	88 / 8 / 8	88 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	76 / 7 / 7	74 / 7 / 7	73 / 7 / 7	72 / 7 / 7	70 / 7 / 7	69 / 7 / 7

Brussels
 14th of February 2011

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
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**

Stratophone characteristics in :	55.1	55.2	66.1	66.2	88.2
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	38 (-1, -3)	39 (-1, -3)	40 (-1, -3)	40 (-1, -3)	41 (-1, -2)
11. Thermal properties:					
- U-value (EN 673)	5,6	5,5	5,5	5,4	5,3
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87 / 8 / 8	87 / 8 / 8	86 / 8 / 8	86 / 8 / 8	84 / 8 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	70 / 7 / 7	69 / 7 / 7	68 / 7 / 7	66 / 7 / 7	62 / 6 / 6

Brussels
 16th of March 2011

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratophone 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 Top N**, intended to be used in buildings and construction works, following **EN 14449**

Stratophone Top N characteristics in :	33.1 Top N	33.2 Top N	44.1 Top N	44.2 Top N	66.1 Top N	66.2 Top N
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	35 (-1, -3)	36 (0, -3)	37 (-0, -3)	37 (0, -3)	40 (-1, -3)	40 (-1, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,04	0,04	0,04	0,04	0,04	0,04
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	86 / 6 / 8	86 / 6 / 8	85 / 6 / 8	85 / 6 / 8	84 / 6 / 8	83 / 6 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	60 / 25 / 18	59 / 25 / 17	58 / 25 / 17	58 / 25 / 16	56 / 24 / 15	56 / 24 / 14

Brussels
 14th of February 2011

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratophone 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 Top N+**, intended to be used in buildings and construction works, following **EN 14449**

Stratophone Top N+ characteristics in :	33.1 Top N+	33.2 Top N+	44.1 Top N+	44.2 Top N+	66.1 Top N+	66.2 Top N+
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	35 (-1, -3)	36 (0, -3)	37 (-0, -3)	37 (0, -3)	40 (-1, -3)	40 (-1, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,03	0,03	0,03	0,03	0,03	0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	86 / 6 / 7	86 / 6 / 7	85 / 6 / 7	85 / 6 / 7	83 / 6 / 7	83 / 6 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	55 / 29 / 20	54 / 29 / 19	53 / 29 / 18	53 / 29 / 18	50 / 29 / 16	50 / 29 / 15

Brussels
 14th of February 2011

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratophone Tri



We

AGC Flat Glass Europe
Division Raw Glass Products
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 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

Stratophone Tri characteristics in :	33.1 Tri	33.2 Tri	44.1 Tri	44.2 Tri	55.2 Tri	66.2 Tri
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	35 (-1, -3)	36 (0, -3)	37 (-0, -3)	37 (0, -3)	40 (-1, -3)	40 (-1, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,07	0,07	0,07	0,07	0,07	0,07
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	87 / 7 / 8	87 / 7 / 8	86 / 7 / 8	86 / 6 / 8	84 / 6 / 8	84 / 6 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	66 / 17 / 12	65 / 17 / 11	64 / 16 / 11	63 / 16 / 11	60 / 16 / 10	59 / 16 / 10

Brussels
 14th of February 2011

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratophone 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 I-TOP**, intended to be used in buildings and construction works, following **EN 14449**

Stratophone I-Top characteristics in :	33.1 I-Top	44.1 I-Top	44.2 I-Top
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	35 (-1, -3)	37 (-0, -3)	37 (0, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	NPD 0,03	NPD 0,03	NPD 0,03
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	86 / 6 / 7	85 / 5 / 7	85 / 5 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	54 / 28 / 19	52 / 28 / 17	52 / 28 / 16

Brussels
28th of April 2011

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratophone 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 Top 1.0**, intended to be used in buildings and construction works, following **EN 14449**

Stratophone Top 1.0 characteristics in :	33.1 Top 1.0	33.2 Top 1.0	44.1 Top 1.0	44.2 Top 1.0	66.1 Top 1.0	66.2 Top 1.0
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	35 (-1, -3)	36 (0, -3)	37 (-0, -3)	37 (0, -3)	40 (-1, -3)	40 (-1, -3)
11. Thermal properties:						
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n (EN 12898)	0,01	0,01	0,01	0,01	0,01	0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	76 / 15 / 17	76 / 15 / 17	75 / 15 / 17	75 / 15 / 17	74 / 14 / 16	74 / 14 / 16
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	45 / 42 / 30	44 / 42 / 29	44 / 42 / 28	43 / 42 / 27	42 / 42 / 24	42 / 42 / 23

Brussels
 14th of February 2011

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratophone Energy N



We

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 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **STRATOPHONE Energy N**, intended to be used in buildings and construction works, following **EN 14449**

Stratophone Energy N characteristics in :	33.1 Energy N	33.2 Energy N	44.1 Energy N	44.2 Energy N	66.1 Energy N	66.2 Energy N
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	P1A-P2A	NPD	P1A-P2A	NPD	P1A-P2A
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	35 (-1, -3)	36 (0, -3)	37 (-0, -3)	37 (0, -3)	40 (-1, -3)	40 (-1, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n (EN 12898)	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01	NPD 0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	78 / 6 / 7	77 / 6 / 7	77 / 6 / 7	77 / 6 / 7	75 / 6 / 7	75 / 6 / 7
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	42 / 38 / 24	42 / 38 / 23	41 / 38 / 22	41 / 38 / 21	39 / 38 / 18	39 / 38 / 18

Brussels
 14th of February 2011

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
Stratophone Light



We

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

Stratophone Light characteristics in :	33.1 Light	44.1 Light
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	35 (-1, -3)	37 (-0, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n (EN 12898)	NPD 0,01	NPD 0,01
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	71/19/21	71/19/21
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	41/43/29	40/43/26

Brussels
14th of February 2011

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division

Sunergy



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Sunergy Clear (annealed)



We

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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**

Sunergy Clear characteristics in :	3 mm	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	29 (-2, -5)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:					
- U-value (EN 673)	NPD	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28	0,28	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	69 / 10 / 9	69 / 10 / 9	68 / 10 / 9	67 / 10 / 8	66 / 10 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	56 / 10 / 10	56 / 10 / 10	54 / 10 / 9	52 / 10 / 9	50 / 10 / 9

Brussels
 23rd of April 2008

A. Jardinet
 Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
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**

Sunergy Clear Heat strengthened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	69 / 10 / 9	68 / 10 / 9	67 / 10 / 8	66 / 10 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	56 / 10 / 10	54 / 10 / 9	52 / 10 / 9	50 / 10 / 9

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Sunergy 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 **SUNERGY CLEAR Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Sunergy Clear Thermally toughened or Heat soaked thermally toughened characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C3	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:				
- U-value (EN 673)	NPD	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	69 / 10 / 9	68 / 10 / 9	67 / 10 / 8	66 / 10 / 8
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	56 / 10 / 10	54 / 10 / 9	52 / 10 / 9	50 / 10 / 9

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Sunergy Azur (annealed)



We

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

Sunergy Azur characteristics in :	4 mm	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1	A1
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	30 (-2, -4)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,28	NPD 0,28	NPD 0,28	NPD 0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	60 / 10 / 8	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	40 / 10 / 7	34 / 10 / 6	29 / 9 / 6	26 / 9 / 6

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Sunergy 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 **SUNERGY AZUR Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Sunergy Azur Heat strengthened characteristics in :	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,28	NPD 0,28	NPD 0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	34 / 10 / 6	29 / 9 / 6	26 / 9 / 6

Brussels
01st of September 2006


JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Sunergy 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 **SUNERGY AZUR Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Sunergy Azur Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	34 / 10 / 6	29 / 9 / 6	26 / 9 / 6

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Sunergy 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 **SUNERGY Dark blue**, intended to be used in buildings and construction works, following **EN 1096-4**

Sunergy Dark Blue characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	40 / 9 / 6	35 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	26 / 9 / 6	21 / 9 / 5

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Sunergy Dark Blue Heat strengthened



We

AGC Flat Glass Europe
Division Processed Glass Products
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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**

Sunergy Dark Blue Heat strengthened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	40 / 9 / 6	35 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	26 / 9 / 6	21 / 9 / 5

Brussels
01st of September 2006

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Sunergy 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 **SUNERGY Dark Blue Thermally toughened or Heat soaked thermally toughened**, intended to be used in buildings and construction works, following **EN 12150-2 / 14179-2**

Sunergy Dark Blue Thermally toughened or Heat soaked thermally toughened characteristics in	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,28	NPD 0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	40 / 9 / 6	35 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	26 / 9 / 6	21 / 9 / 5

Brussels
01st of March 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
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**

Sunergy Green characteristics in :	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,28	NPD 0,28	NPD 0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	31 / 9 / 6	26 / 9 / 6	22 / 9 / 5

Brussels
23rd of April 2008

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
Declaration of performances
Sunergy 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 **SUNERGY GREEN Heat strengthened**, intended to be used in buildings and construction works, following **EN 1863-2**

Sunergy Green Heat strengthened characteristics in :	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties: - U-value (EN 673) - Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,28	NPD 0,28	NPD 0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	31 / 9 / 6	26 / 9 / 6	22 / 9 / 5

Brussels
01st of September 2006


JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
Declaration of performances
Sunergy Green Thermally toughened or Heat soaked thermally toughened



We

AGC Flat Glass Europe
Division Processed Glass Products
 Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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 / 14179-2**

Sunergy Green Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm	10 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1	A1
3. External fire performances	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	1C2	1C1
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)	34 (-2, -3)
11. Thermal properties:			
- U-value (EN 673)	NPD	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	56 / 10 / 7	52 / 9 / 7	48 / 9 / 6
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	31 / 9 / 6	26 / 9 / 6	22 / 9 / 5

Brussels
 01st of March 2007

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Coated glass - EN 1096-4
Declaration of performances
Sunergy Grey (annealed)



We

AGC Flat Glass Europe
Division Raw Glass Products
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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**

Sunergy Grey characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	34 / 9 / 5	26 / 8 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 9 / 6	24 / 9 / 6

Brussels
17th of June 2009

A. Jardinet
Vice-President, Sales & Marketing Raw Glass Division



CE Marking of Heat strengthened glass - EN 1863-2
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**

Sunergy Grey Heat strengthened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties:		
- U-value (EN 673)	NPD	NPD
- Normal emissivity ϵ_n coated side (EN 12898)	0,28	0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	34 / 9 / 5	26 / 8 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 9 / 6	24 / 9 / 6

Brussels
17th of June 2009

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Thermally toughened glass - EN 12150-2
CE Marking of Heat soaked Thermally toughened glass - EN 14179-2
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 / 14179-2**

Sunergy Grey Thermally toughened or Heat soaked thermally toughened characteristics in :	6 mm	8 mm
1. Resistance to fire (EN 13501-2)	NPD	NPD
2. Reaction to fire (EN 13501-1)	A1	A1
3. External fire performances	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1C2	NPD
8. Resistance against sudden temperature change and temperature differentials	200 K	200 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	31 (-2, -3)	32 (-1, -2)
11. Thermal properties: <ul style="list-style-type: none">- U-value (EN 673)- Normal emissivity ϵ_n coated side (EN 12898)	NPD 0,28	NPD 0,28
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	34 / 9 / 5	26 / 8 / 5
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	30 / 9 / 6	24 / 9 / 6

Brussels
17th of June 2009

JL. Batkin
Vice-President, Processed Glass Division

SunEwatt



CE Marking of Laminated glass – EN 14449
Declaration of performances
SunEwat L 44.4 heat stenghtened



We

AGC Flat Glass Europe
Division Solar Products

Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

	Surface covered by solar celles regarding to the surface of the glass										
44.4 SunEwat L characteristics in :	0 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	100 K	100 K	100 K	100 K	100 K	100 K	100 K	100 K	100 K	100 K	100 K
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties:											
- U-value (EN 673)	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	88/8/8	79/8/11	70/8/13	62/8/16	53/8/18	44/9/21	35/9/23	26/9/26	18/9/28	9/9/31	0/9/33
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	75/7/7	68/9/9	60/9/11	53/10/13	45/11/15	38/12/17	30/12/19	23/13/21	15/14/23	8/15/25	0/16/27

Brussels
29th of March 2011

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
SunEwat L 44.4 thermally toughened



We

AGC Flat Glass Europe
Division Solar Products

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

	Surface covered by solar celles regarding to the surface of the glass										
44.4 SunEwat L characteristics in :	0 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	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	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties:											
- U-value (EN 673)	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6	5,6
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	88/8/8	79/8/1 1	70/8/13	62/8/16	53/8/18	44/9/21	35/9/23	26/9/26	18/9/28	9/9/31	0/9/33
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	75/7/7	68/9/9	60/9/11	53/10/ 13	45/11/ 15	38/12/ 17	30/12/ 19	23/13/ 21	15/14/ 23	8/15/25	0/16/27

Brussels
15th of October 2010

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
SunEwat XL 55.6 thermally toughened



We

AGC Flat Glass Europe
Division Solar Products

Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

	Surface covered by solar celles regarding to the surface of the glass										
55.6 SunEwat L characteristics in :	0 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	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	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties:											
- U-value (EN 673)	5,3	5,3	5,3	5,3	5,3	5,3	5,3	5,3	5,3	5,3	5,3
- Normal emissivity $\square \square_n \square$ (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	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 energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	66/7/7	60/7/8	53/8/9	46/8/9	40/8/10	33/9/11	26/9/12	20/9/13	13/9/13	7/10/14	0/10/15

Brussels
 19th of May 2011

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
SunEwat XL 66.6 thermally toughened



We

AGC Flat Glass Europe
Division Solar Products

Chaussée de La Hulpe 166 - B 1170 Brussels
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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **SunEwat L**, intended to be used in buildings and construction works, following **EN 14449**

	Surface covered by solar celles regarding to the surface of the glass										
66.6 SunEwat L characteristics in :	0 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	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	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties:											
- U-value (EN 673)	5,2	5,2	5,2	5,2	5,2	5,2	5,2	5,2	5,2	5,2	5,2
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	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 energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	64/6/6	58/6/7	51/7/8	45/7/9	39/8/10	32/8/11	26/8/11	19/9/12	13/9/13	6/10/14	0/10/15

Brussels
 19th of May 2011

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
SunEwat XL 88.6 thermally toughened



We

AGC Flat Glass Europe
Division Solar Products

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

	Surface covered by solar celles regarding to the surface of the glass										
88.6 SunEwat L characteristics in :	0 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	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	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties:											
- U-value (EN 673)	5,2	5,2	5,2	5,2	5,2	5,2	5,2	5,2	5,2	5,2	5,2
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	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 energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	62/5/5	56/5/6	50/6/7	44/6/7	37/7/8	31/7/9	25/7/10	19/8/11	12/8/11	6/8/12	0/9/13

Brussels
19th of May 2011

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Laminated glass – EN 14449
Declaration of performances
SunEwat XL 10 10.6 thermally toughened



We

AGC Flat Glass Europe
Division Solar Products

Chaussée de La Hulpe 166 - B 1170 Brussels
 Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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

	Surface covered by solar celles regarding to the surface of the glass										
10 10.6 SunEwat L characteristics in :	0 %	10 %	20 %	30 %	40 %	50 %	60 %	70 %	80 %	90 %	100 %
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1	1B1
8. Resistance against sudden temperature change and temperature differentials	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	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties:											
- U-value (EN 673)	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0	5,0
- Normal emissivity ϵ_n (EN 12898)	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89	0,89
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	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 energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	59/5/5	53/5/6	47/6/7	41/6/7	35/7/8	29/7/9	23/7/10	18/8/11	12/8/11	6/8/12	0/9/13

Brussels
 19th of May 2011

JL. Batkin
 Vice-President, Processed Glass Division

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 Flat Glass Europe

Division Processed Glass Products

Chaussée de La Hulpe 166 - B 1170 Brussels

Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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**

Planibel Thermally toughened characteristics in :	3 mm	4 mm	5 mm	6 mm	8 mm
Cleanability	Pass				
Impact resistance / Shatter properties	Pass				
Durability	Pass				

Brussels
04th of December 2008

JL. Batkin
Vice-President, Processed Glass Division

Thermobel



CE Marking of Insulating glass unit - EN 1279-5
Declaration of performances
Thermobel (level 3 products)



We

AGC Flat Glass Europe
Division Processed Glass Products
Chaussée de La Hulpe 166 - B 1170 Brussels
Tel.: + 32 - (0) 2 674.31.11 - Fax: + 32 - (0) 2 674.44.62

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**

Thermobel (level 3 products) characteristics in :	For 13 characteristics, see <u>www.YourGlass.com/ce</u>
1. Resistance to fire (EN 13501-2)	
2. Reaction to fire (EN 13501-1)	
3. External fire performances	
4. Bullet resistance (EN 1063)	
5. Explosion resistance (EN 13541)	
6. Burglar resistance (EN 356)	
7. Pendulum body impact resistance (EN 12600)	
8. Resistance against sudden temperature change and temperature differentials	
9. Wind, snow, permanent and imposed load resistance	
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	
11. Thermal properties: U-value (EN 673)	
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	

Brussels
09th of March 2007

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Insulating glass unit - EN 1279-5
Declaration of performances
Thermobel (level 1 products)



We

AGC Flat Glass Europe
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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**

Thermobel (level 1 products) characteristics in :	
Certificate Number:	0749-CPD-143
Notified Body :	0749
1. Resistance to fire (EN 13501-2)	For 13 characteristics, see www.YourGlass.com/ce
2. Reaction to fire (EN 13501-1)	
3. External fire performances	
4. Bullet resistance (EN 1063)	
5. Explosion resistance (EN 13541)	
6. Burglar resistance (EN 356)	
7. Pendulum body impact resistance (EN 12600)	
8. Resistance against sudden temperature change and temperature differentials	
9. Wind, snow, permanent and imposed load resistance	
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	
11. Thermal properties: U-value (EN 673)	
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	

Brussels
09th of March 2007

JL. Batkin
Vice-President, Processed Glass Division

Thermobel VIP



CE Marking of Insulating glass unit - EN 1279-5
Declaration of performances
Thermobel VIP



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Thermobel VIP**, intended to be used in buildings and construction works, following **EN 1279-5**

Thermobel VIP characteristics in :	4-16-4 (VIP 14 mm)	4-20-4 (VIP 18 mm)	4-22-4 (VIP 20 mm)	6-16-4 (VIP 14 mm)	6-20-4 (VIP 18 mm)	6-22-4 (VIP 20 mm)
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	NPD
11. Thermal properties: - U-value (EN 674)	0,4	0,3	0,3	0,4	0,3	0,3
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD	NPD

Brussels
08th of April 2010

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Insulating glass unit - EN 1279-5
Declaration of performances
Thermobel VIP



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Thermobel VIP**, intended to be used in buildings and construction works, following **EN 1279-5**

Thermobel VIP characteristics in :	6-16-6 (VIP 14 mm)	6-20-6 (VIP 18 mm)	6-22-6 (VIP 20 mm)	6-42-6 (VIP 40 mm)
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	35 (-1, -3)	NPD
11. Thermal properties: - U-value (EN 674)	0,4	0,3	0,3	0,15
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD

Brussels
08th of April 2010

JL. Batkin
Vice-President, Processed Glass Division



CE Marking of Insulating glass unit - EN 1279-5
Declaration of performances
Thermobel VIP



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Thermobel VIP characteristics in :	4-16-4* (VIP 14 mm)	4-20-4* (VIP 18 mm)	4-22-4* (VIP 20 mm)	6-16-4* (VIP 14 mm)	6-20-4* (VIP 18 mm)	6-22-4* (VIP 20 mm)
	* glass glued with a steel plate of 0,75 mm					
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	38 (-2, -5)
11. Thermal properties: - U-value (EN 674)	0,4	0,3	0,3	0,4	0,3	0,3
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD	NPD

Brussels
 08th of April 2010

JL. Batkin
 Vice-President, Processed Glass Division



CE Marking of Insulating glass unit - EN 1279-5
Declaration of performances
Thermobel VIP



We

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Declare, under his sole responsibility, the following characteristics for the CE Marking of the glass products named **Thermobel VIP**, intended to be used in buildings and construction works, following **EN 1279-5**

Thermobel VIP characteristics in :	4*-16-4* (VIP 14 mm)	4*-20-4* (VIP 18 mm)	4*-22-4* (VIP 20 mm)	6-16-6** (VIP 14 mm)	6-20-6** (VIP 16 mm)	6-22-6** (VIP 14 mm)
	* glass glued with a steel plate of 0,75 mm / ** glass glued with a steel plate of 2 mm					
1. Resistance to fire (EN 13501-2)	NPD	NPD	NPD	NPD	NPD	NPD
2. Reaction to fire (EN 13501-1)	NPD	NPD	NPD	NPD	NPD	NPD
3. External fire performances	NPD	NPD	NPD	NPD	NPD	NPD
4. Bullet resistance (EN 1063)	NPD	NPD	NPD	NPD	NPD	NPD
5. Explosion resistance (EN 13541)	NPD	NPD	NPD	NPD	NPD	NPD
6. Burglar resistance (EN 356)	NPD	NPD	NPD	NPD	NPD	NPD
7. Pendulum body impact resistance (EN 12600)	NPD	NPD	NPD	NPD	NPD	NPD
8. Resistance against sudden temperature change and temperature differentials	NPD	NPD	NPD	NPD	NPD	NPD
9. Wind, snow, permanent and imposed load resistance	NPD	NPD	NPD	NPD	NPD	NPD
10. Direct airborne sound reduction (EN 12758): R_w (C, Ctr)	NPD	NPD	NPD	NPD	NPD	42 (-2, -5)
11. Thermal properties: - U-value (EN 674)	0,4	0,3	0,3	0,4	0,3	0,3
12. Light transmission/reflection (EN 410): $\tau_v / \rho_v / \rho'_v$	NPD	NPD	NPD	NPD	NPD	NPD
13. Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	NPD	NPD	NPD	NPD	NPD	NPD

Brussels
 08th of April 2010

JL. Batkin
 Vice-President, Processed Glass Division

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 двежещи 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 стъло
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	Odolnost proti požáru
Reaction to fire	Reakce na požár
External fire performance	Vlastnosti při konfrontaci s požárem
Bullet resistance	Odolnost proti průstřelu
Explosion resistance	Odolnost proti explozi
Burglar resistance	Odolnost proti vloupání
Pendulum body impact resistance	Odolnost proti nárazu vyvolaného lidským tělem
Resistance against sudden temperature changes and temperature differentials	Odolnost proti náhlým změnám teplot a teplotním rozdílům
Wind, snow, permanent and imposed load resistance	Odolnost proti zátěži-vítr, sníh- trvalému a užitnému zatížení
Direct airborne sound insulation	Izolace proti přímému hluku z letecké dopravy
Thermal properties	Termické vlastnosti
Emissivity	Emisivita
U-value	Koeficient U
Radiation properties	Vlastnosti záření
Light transmission	Prostup světla
Light reflection	Světelná reflexe
Solar energy transmission	Propustnost slunečního záření
Solar energy reflection	Reflexe slunečního záření

Basic soda lime silicate float glass	Základní sodnovápenatokřemičité float sklo
Basic soda lime silicate patterned glass	Základní sodnovápenatokřemičité ornamentní sklo
Basic soda lime silicate wired patterned glass	Základní sodnovápenatokřemičité ornamentní 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	Sodnovápenatokřemičité bezpečnostní tvrzené sklo- s 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	Varmeforstærket 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	Energireflexion

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	Αντιστάση στην φωτιά
Reaction to fire	Αντιδράση στην φωτιά
External fire performance	Επίδοση σε εξωτερική φωτιά
Bullet resistance	Αντιστάση σε σφαίρα
Explosion resistance	Αντιστάση σε εκρηξη
Burglar resistance	Αντιστάση σε διάρρηξη
Pendulum body impact resistance	Αντιστάση σε κρούση εκκρεμών αντικειμένων
Resistance against sudden temperature changes and temperature differentials	Αντιστάση κατά ξαφνικών αλλαγών θερμοκρασίας και διαφορών θερμοκρασιών
Wind, snow, permanent and imposed load resistance	Μονιμή και επιβαλλόμενη αντιστάση 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 υαλοπινάκας
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 γυαλίου σόδας ασφαλείας
Heat strengthened soda lime silicate glass	Θερμικά ενισχυμένο βασικό γυαλί σόδας
Insulating glass units	Διπλοί μονωτικοί υαλοπινάκες
Laminated glass and laminated safety glass	Λαμιναρισμένος υαλοπινάκας και λαμιναρισμένος υαλοπινάκας ασφαλείας
Fire resistant glass	Πυράντοχος υαλοπινάκας

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" teszttel 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	Wygrzewane 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	reacția 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 izolan
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 jähdytykuormaa vastaan
Direct airborne sound insulation	Suoran ilmaaäänen eristys
Thermal properties	Lämmöneristys
Emissivity	Emissiivisyys
U-value	U-arvo
Radiation properties	Säteilyn suojaus
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 trådglas
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