



## DECLARATION OF PERFORMANCE

**Saint-Gobain - Building Glass Europe**

Tour Saint Gobain - 12 place de l'Iris  
92400 Courbevoie - France  
19/3/2020

EN 1096-4:2018

Coated glass  
intended to be used in buildings and construction works

SGG PLANITHERM 4S EVOLUTION F2 4 mm  
M104947

NB: 0336, 0497, 0679, 0757, 0809, 1116, 1136, 1154, 1174, 1234, 1322, 1694, 1717, 1750, 1751

Essential characteristics	AVCP Systems	Performances
<b>For uses relating to safety in case of fire:</b>		
Resistance to fire	1	NPD
Reaction to fire	3,4	A1
External fire performance	3,4	NPD
<b>for uses as anti-bullet or anti-explosion glazing</b>		
Bullet resistance	1	NPD
Explosion resistance	1	NPD
<b>for uses liable to present "safety-in-use" risks and subject to such regulations</b>		
Burglar resistance	3	NPD
Pendulum body impact resistance	3	NPD
Resistance against sudden temperature changes and temperature differentials	K	40
Wind, snow, permanent and imposed load resistance	N/mm <sup>2</sup>	45
<b>for uses relating to noise reduction</b>		
Direct airborne sound insulation	dB	30(-2;-2)
<b>for uses relating to energy conservation</b>		
Declared emissivity $\epsilon_s$	3	0.01
U-value	W/(m <sup>2</sup> .K)	3
Light transmittance $\tau_v$	3	0.66
Light reflectance $\rho_{sp}$	3	0.19 / 0.22
Solar direct transmittance $\tau_s$	3	0.41
Solar direct reflectance $\rho_{sp}$	3	0.37 / 0.47
g-value	3	0.43
Durability	3	NPD

NPD : No Performance Determined

1. Identification number of the certification body.

**The performance of the product is in conformity with the declared performances.****This declaration of performance is issued under the sole responsibility of the manufacturer.****Signed for and on behalf of the manufacturer by:**

Fabrice Desmons

International Product Strategy Director Building Glass

19/3/2020

Courbevoie - France



## Declaration of Performance No: FRZ0400Z

TRC Helio Clear 4 mm  
2006

Trakya Cam Sanayii A.Ş.  
İş Kuleleri Kule 3 34330  
4.Levent- İSTANBUL/TÜRKİYE  
Tel: +90 212 350 50 50  
[www.trakyacam.com.tr/en/ce](http://www.trakyacam.com.tr/en/ce)

EN 572-9:2006  
Notified Test Body: 1750

Basic soda lime silicate float glass, intended to be used in buildings and construction works

Characteristics	AVCP System	Performance
<b>Safety in the case of fire:</b>		
Resistance to fire (13501-2)	1	NPD
Reaction to fire (13501-1)	3,4	A1
External fire behaviour (EN 13501-5)	3,4	NPD
<b>Safety in use:</b>		
Bullet resistance (EN 1063)	1	NPD
Explosion resistance (EN 13541)	1	NPD
Burglar resistance (EN 356)	3	NPD
Pendulum body impact resistance (EN 12600)	3	NPD
Resistance against sudden temperature changes and temperature differentials	4	40K
Wind, snow, permanent and imposed load resistance of the glass unit	4	4mm
<b>Protection against noise:</b>		
Direct airborne sound reduction (EN 12758)	4	29 (-2; -3) dB
<b>Thermal properties:</b>		
U-value (EN 673)	3	5,7 W/(m <sup>2</sup> K)
Normal emissivity (EN 12898)	3	0,89
<b>Radiation properties (EN 410):</b>		
Light transmission	3	0,89
Light reflection outdoor	3	0,08
Light reflection indoor	3	0,08
<b>Solar energy characteristics (EN 410):</b>		
Solar transmission	3	0,82
Solar reflection outdoor	3	0,07
Solar reflection indoor	3	0,07

NPD: No performance determined

The performance of the product identified is in conformity with the declared performance above.  
This declaration of performance is issued under the sole responsibility of the manufacturer.  
Signed for and on behalf of the manufacturer by:

Name and function	Place and date of issue	Signature
Gökhan Atikkan Basic Glass Production Director	01 July 2013 İstanbul	



## Declaration of Performance No: CRZ0400BL

TRC Termoplus, 4 mm  
2013

**Trakya Cam Sanayii A.Ş.**  
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Tel: +90 212 350 50 50  
[www.trakyacam.com.tr/en/ce](http://www.trakyacam.com.tr/en/ce)

EN 1096-4 :2006

Off-Line Coated Glass Heat Control Glass (Low-e) , intended to be used in buildings and construction works

Characteristics	AVCP System	Performance
<b>Safety in the case of fire:</b>		
Resistance to fire (13501-2)	1	NPD
Reaction to fire (13501-1)	3.4	A1
External fire behaviour (EN 13501-5)	3.4	NPD
<b>Safety in use:</b>		
Bullet resistance (EN 1063)	1	NPD
Explosion resistance (EN 13541)	1	NPD
Burglar resistance (EN 356)	3	NPD
Pendulum body impact resistance (EN 12600)	3	NPD
Resistance against sudden temperature changes and temperature differentials	4	40K
Wind, snow, permanent and imposed load resistance of the glass unit	4	4mm
<b>Protection against noise:</b>		
Direct airborne sound reduction (EN 12758)	4	29 (-2; -3) dB
<b>Thermal properties:</b>		
U-value (EN 673)	3	NPD
Normal emissivity (EN 12898)	3	0.04
<b>Radiation properties (EN 410):</b>		
Light transmission	3	0.87
Light reflection indoor (coated side)	3	0.05
Light reflection outdoor (uncoated side)	3	0.05
<b>Solar energy characteristics (EN 410):</b>		
Solar transmission	3	0.60
Solar reflection indoor (coated side)	3	0.27
Solar reflection outdoor (uncoated side)	3	0.21

NPD: No performance determined

The performance of the product identified is in conformity with the declared performance above.  
This declaration of performance is issued under the sole responsibility of the manufacturer.  
Signed for and on behalf of the manufacturer by:

Name and function	Place and date of issue	Signature
Gökhan Atikkan Basic Glass Production Director	01 November 2013 İstanbul	