



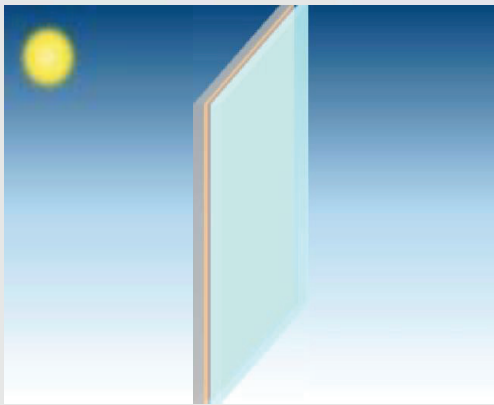
# GUARDIAN SHIELD

## WINDOWS AND DOORS



- ☎ 813-830-1170
- ✉ [Info@GuardianShieldWindows.com](mailto:Info@GuardianShieldWindows.com)
- 🌐 [www.GuardianShieldWindows.com](http://www.GuardianShieldWindows.com)
- 📍 8270 Woodland Center Blvd., #150  
Tampa, Florida 33614






Pane 1

PARSOL GREY (6 mm)  
 COOL-LITE SKN 376 II  
 PVB standard (6 x 0.38 mm)  
 PLANILUX (6 mm)



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 **LUMINOUS FACTORS** CIE (15-2004)

Light transmission (TL %)	32.4 %
Outdoor reflection (RLe %)	7.1 %
Indoor (RLi %)	16.0 %

 **SOLAR FACTORS** NFRC

SHGC	0.3733
RHG	307.75 W/m <sup>2</sup>
Shading Coefficient (SC)	0.4291

**EMISSIVITIES**


Normal emissivity side 1	0.89
Normal emissivity side 2	0.89

 **COLOR RENDERING** CIE (15-2004)

Transmission (Ra)	89.5
Reflection (Ra)	87.8

 **BURGLAR RESIST** EN356

Result:	NPD
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 **ENERGY FACTORS** NFRC

Transmission (Te)	13.6 %
Reflection (Ree)	16.2 %
Indoor (Rei)	32.1 %
Absorption (AE1)	70.2 %
Tdw-ISO	0.2056

 **THERMAL TRANSMISSION** NFRC100

Ug - Winter	5.269 W/m <sup>2</sup> .K
Ug - Summer	4.801 W/m <sup>2</sup> .K
0° related to vertical position	

 **MANUFACTURING SIZES**

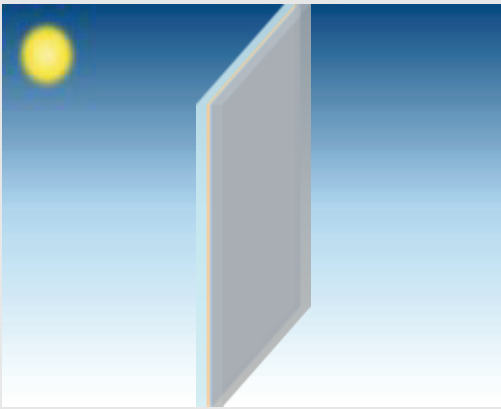
Nominal thickness	14.3 mm
Weight	32.4 kg/m <sup>2</sup>

 **PENDULUM RESISTANCE** EN12600

Result :	NPD
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Calumen III calculates the photometric characteristics and thermal transmission of glass using calculation algorithms which comply with the following standards: the European standards EN 410 and EN 673, the international standard ISO9050, the Japanese standard JIS R 3106/3107 and the Korean standard KS L 2514/2525. The functional output and calculation rules of Calumen for standards EN 410 and EN 673 have been validated by TÜV Rheinland (report 89212153-01). The technical performances obtained according to these standards are provided for information only and are subject to amendment. Only the values entered in the performance declaration available on the CE marking site of Saint-Gobain Glass are official. The sound attenuation indices are measured under laboratory conditions according to the standards EN ISO 10140 and EN 12758. The calculated indices are provided for information only. The accuracy for Rw index lies within a range of +/-2dB. The glass thickness calculations comply with the 2012 version of the DTU39-P4 description. The USER is responsible for ensuring that the correct calculation hypotheses are entered and the DTU39 is applied appropriately for the project concerned.



Pane 1

PLANILUX (6 mm) Thermally toughened : Float  
 COOL-LITE ST 136  
 SentryGlas (0.89 mm)  
 PARSOL GREY (6 mm) Thermally toughened :  
 Float



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**LUMINOUS FACTORS**

CIE (15-2004)

Light transmission (TL %)	18.5 %
Outdoor reflection (RLe %)	19.7 %
Indoor (RLi %)	6.3 %



**SOLAR FACTORS**

NFRC

SHGC	0.3875
RHG	101.30 Btu/h.ft²
Shading Coefficient (SC)	0.4454

**EMISSIONS**

Normal emissivity side 1	0.89
Normal emissivity side 2	0.89



**COLOR RENDERING**

CIE (15-2004)

Transmission (Ra)	92.2
Reflection (Ra)	93.9



**BURGLAR RESIST**

EN356

Result :	NPD
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**ENERGY FACTORS**

NFRC

Transmission (Te)	16.1 %
Reflection (Ree)	16.3 %
Indoor (Rei)	6.1 %
Absorption (AE1)	67.5 %



**THERMAL TRANSMISSION**

NFRC100

Ug - Winter	0.968 Btu/h.ft². °F
Ug - Summer	0.878 Btu/h.ft². °F
0° related to vertical position	



**MANUFACTURING SIZES**

Nominal thickness	0.507 Inch
Weight	6.314 lb/ft²



**PENDULUM RESISTANCE**

EN12600



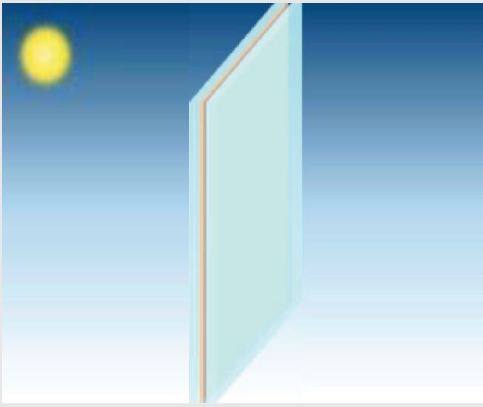
**ACOUSTICS**

NPD

Result :	NPD
-	Rw(...) no disponible
OITC (ASTM E1332)	N/A
STC (ASTM E413)	N/A



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Pane 1

PLANILUX (6 mm)  
COOL-LITE KS 138 II  
PVB standard (6 x 0.38 mm)  
PLANILUX (6 mm)



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	<b>LUMINOUS FACTORS</b>	CIE (15-2004)
	Light transmission (TL %)	32.4 %
	Outdoor reflection (RLe %)	40.4 %
	Indoor (RLi %)	27.9 %


	<b>SOLAR FACTORS</b>	NFRC
	SHGC	0.3007
	RHG	255.17 W/m <sup>2</sup>
	Shading Coefficient (SC)	0.3456

<b>EMISSIONITIES</b>	
Normal emissivity side 1	0.89
Normal emissivity side 2	0.89

	<b>COLOR RENDERING</b>	CIE (15-2004)
	Transmission (Ra)	88.2
	Reflection (Ra)	96.0

	<b>BURGLAR RESIST</b>	EN356
	Result :	NPD

	<b>CARBON FOOTPRINT</b>	EN15804 [A2]
	Global warming potential	N/A

	<b>ENERGY FACTORS</b>	NFRC
	Transmission (Te)	17.9 %
	Reflection (Ree)	42.8 %
	Indoor (Rei)	30.8 %
	Absorption (AE1)	39.4 %
	Tdw-ISO	0.2302

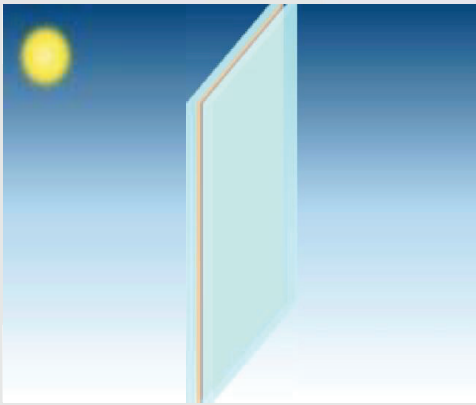
	<b>THERMAL TRANSMISSION</b>	NFRC100
	Ug - Winter	5.269 W/m <sup>2</sup> .K
	Ug - Summer	4.801 W/m <sup>2</sup> .K
	0° related to vertical position	

	<b>MANUFACTURING SIZES</b>	
	Nominal thickness	14.3 mm
	Weight	32.4 kg/m <sup>2</sup>

	<b>PENDULUM RESISTANCE</b>	EN12600
	Result :	NPD



Calumen III calculates the photometric characteristics and thermal transmission of glass using calculation algorithms which comply with the following standards: the European standards EN 410 and EN 673, the international standard ISO9050, the Japanese standard JIS R 3106/3107 and the Korean standard KS L 2514/2525. The functional output and calculation rules of Calumen for standards EN 410 and EN 673 have been validated by TÜV Rheinland (report 89212153-01). The technical performances obtained according to these standards are provided for information only and are subject to amendment. Only the values entered in the performance declaration available on the CE marking site of Saint-Gobain Glass are official. The sound attenuation indices are measured under laboratory conditions according to the standards EN ISO 10140 and EN 12758. The calculated indices are provided for information only. The accuracy for Rw index lies within a range of +/-2dB. The glass thickness calculations comply with the 2012 version of the DTU99-P4 description. The USER is responsible for ensuring that the correct calculation hypotheses are entered and the DTU99 is applied appropriately for the project concerned.



Pane 1

PLANILUX (6 mm)  
COOL-LITE SKN 176 II  
PVB standard (6 x 0.38 mm)  
PLANILUX (6 mm)



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### LUMINOUS FACTORS

CIE (15-2004)

Light transmission (TL %)	67.2 %
Outdoor reflection (RLe %)	16.1 %
Indoor (RLi %)	17.6 %



### SOLAR FACTORS

NFRC

SHGC	0.3810
RHG	313.36 W/m <sup>2</sup>
Shading Coefficient (SC)	0.4380

### EMISSIVITIES

Normal emissivity side 1	0.89
Normal emissivity side 2	0.89



### COLOR RENDERING

CIE (15-2004)

Transmission (Ra)	92.2
Reflection (Ra)	78.1



### BURGLAR RESIST

EN356

Result:	NPD
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### ENERGY FACTORS

NFRC

Transmission (Te)	26.7 %
Reflection (Ree)	36.3 %
Indoor (Rei)	32.6 %
Absorption (AE1)	37 %
Tdw-ISO	0.4147



### THERMAL TRANSMISSION

NFRC100

Ug - Winter	5.269 W/m <sup>2</sup> .K
Ug - Summer	4.801 W/m <sup>2</sup> .K
0° related to vertical position	



### MANUFACTURING SIZES

Nominal thickness	14.3 mm
Weight	32.4 kg/m <sup>2</sup>



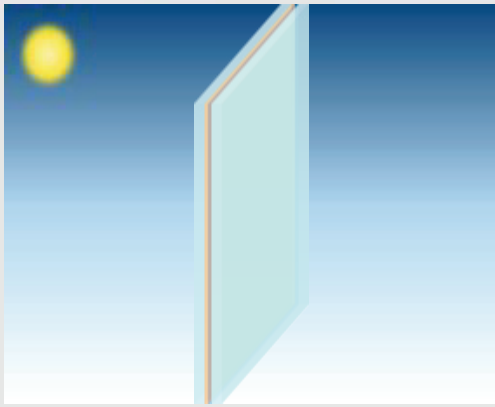
### PENDULUM RESISTANCE

EN12600

Result:	NPD
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Pane 1  
 PLANILUX (6 mm) Thermally toughened : Float  
 COOL-LITE ST 136  
 PVB standard (6 x 0.38 mm)  
 PLANILUX (6 mm) Thermally toughened : Float



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**LUMINOUS FACTORS**

CIE (15-2004)

Light transmission (TL %)	38.3 %
Outdoor reflection (RLe %)	20.2 %
Indoor (RLi %)	12.8 %



**SOLAR FACTORS**

NFRC

SHGC	0.4560
RHG	116.56 Btu/h.ft <sup>2</sup>
Shading Coefficient (SC)	0.5241

**EMISSIONS**

Normal emissivity side 1	0.89
Normal emissivity side 2	0.89



**COLOR RENDERING**

CIE (15-2004)

Transmission (Ra)	94.6
Reflection (Ra)	93.8



**BURGLAR RESIST**

EN356

Result :	NPD
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**ENERGY FACTORS**

NFRC

Transmission (Te)	27.7 %
Reflection (Ree)	16.6 %
Indoor (Rei)	9.8 %
Absorption (AE1)	55.7 %



**THERMAL TRANSMISSION**

NFRC100

Ug - Winter	0.928 Btu/h.ft <sup>2</sup> .°F
Ug - Summer	0.845 Btu/h.ft <sup>2</sup> .°F
0° related to vertical position	



**MANUFACTURING SIZES**

Nominal thickness	0.562 Inch
Weight	6.639 lb/ft <sup>2</sup>



**PENDULUM RESISTANCE**

EN12600

Result :	NPD
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**ACOUSTICS**

EN12758

Acoustic simulated values - v2.0	Rw(C,Ctr) = 37(-1;-3) dB
OITC (ASTM E1332)	34
STC (ASTM E413)	37



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