

6 FT (16 Argon 90) 44.4

PLANITHERM ONE T FG #2

Computed by: Daniel Harrendence

Computed on: 14/06/2023

Location: United Kingdom

Glazing type





Glazing 1
 PLANICLEAR (6mm) - Tempered
 PLANITHERM ONE T FG

Cavity 1
 Argon 90% 16 mm

Glazing 2
 PLANICLEAR (4mm) - Annealed
 PVB STANDARD (1.52mm)
 PLANICLEAR (4mm) - Annealed

Illustrations



These illustrations are the result of many years of research and development. To ensure the best possible experience, we recommend that you view these illustrations with a quality screen.

Simulated performance datas

Luminous Factors		CIE (15-2004)
Light Transmittance (TL)		66%
Outdoor Reflectance (RLe)		25%
Indoor Reflectance (RLi)		24%
Energy Factors		EN410 (2011-04)
Transmittance (TE)		38%
Outdoor Reflectance (Ree)		38%
Indoor Reflectance (Rei)		32%
Absorptance A1 (AE1)		18%
Absorptance A2 (AE2)		5%
Solar Factors		EN410 (2011-04)
Solar Factor (g)		0.44
Shading Coefficient (SC)		0.5
Thermal Transmission (Ug)		EN673-2011
Ug		1.0 W/(m ² .K)
Angle relative to the vertical		0°
Acoustics		EN 12758
<i>Acoustic values according to EN 12758 and from notified body</i>		
Rw		39 (-2; -5) dB
STC (ASTM E413)		N/A
OITIC (ASTM E1332)		N/A
Color Rendering		CIE (15-2004)
Transmission (Ra)		96
Reflection (Ra)		97
Safety Class		EN 12600
Pendulum Body Resistance		1C2/1B1
Anti-Burglary		EN 356
Burglar Resistance		NPD/P4A
Manufacturing Sizes		
Nominal Thickness		31.52 mm
Weight		36.611 kg/m ²
Sustainability		
Carbon footprint		
<i>The value is calculated regarding the composition computed based on the standard EN 15804+A2 (2019)</i>		
Global Warming Potential (GWP) - A1-A3		68
(kg, CO ₂ eq./m ²) European average		



Calumen 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 11923R-11-33705). The technical performances obtained according to the NFRC-2010 standard are provided for information only. All the certified values must be obtained with NFRC certified software.

The sound attenuation indices are measured under laboratory conditions according to the standards EN ISO 10140 and EN 12758. The reproducibility of the measured index is +/-1dB (EN 12758). If no measured value exists, Calumen can propose a calculated index. The calculated indices are provided for information only. The accuracy for Rw index lies within a range of +/-2dB. NB: the in situ measurements may differ according to the dimensions of the glass, the environment, the framing performance, the installation type, noise source, etc.

The impact resistance of a soft body is measured according to EN 12600 and intrusion resistance is measured according to EN 356.

The values supplied by Calumen III (EN 410, EN 673, ISO9050, JIS R 3106/3107, KS L 2514/2525, EN 356, EN 12600, NFRC-2010) are provided for information purposes and are subject to amendment. They shall not be used to guarantee product performances. Only the values entered in the performance declaration available on the CE marking site of Saint-Gobain Glass are official. The USER must check the feasibility of associated products, notably in terms of thickness and color. Moreover, the USER is responsible for checking that the glass combinations fulfil the national, local or legal statutory requirements.

6 FT (16 Argon 90) 33.2

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Location: United Kingdom

Glazing type





Glazing 1
 PLANICLEAR (6mm) - Tempered
 PLANITHERM ONE T FG

Cavity 1
 Argon 90% 16 mm

Glazing 2
 PLANICLEAR (3mm) - Annealed
 PVB STANDARD (0.76mm)
 PLANICLEAR (3mm) - Annealed

Illustrations



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Simulated performance datas

Luminous Factors		CIE (15-2004)
Light Transmittance (TL)		66%
Outdoor Reflectance (RLe)		25%
Indoor Reflectance (RLi)		25%
Energy Factors		EN410 (2011-04)
Transmittance (TE)		39%
Outdoor Reflectance (Ree)		38%
Indoor Reflectance (Rei)		36%
Absorptance A1 (AE1)		18%
Absorptance A2 (AE2)		4%
Solar Factors		EN410 (2011-04)
Solar Factor (g)		0.44
Shading Coefficient (SC)		0.5
Thermal Transmission (Ug)		EN673-2011
Ug		1.0 W/(m2.K)
Angle relative to the vertical		0°
Acoustics		EN 12758
<i>Acoustic simulated values</i>		
Rw		37 (-2; -6) dB
STC (ASTM E413)		37
OITIC (ASTM E1332)		29
Color Rendering		CIE (15-2004)
Transmission (Ra)		96
Reflection (Ra)		97
Safety Class		EN 12600
Pendulum Body Resistance		1C2/1B1
Anti-Burglary		EN 356
Burglar Resistance		NPD/P1A
Manufacturing Sizes		
Nominal Thickness		28.76 mm
Weight		30.806 kg/m²
Sustainability		
Carbon footprint		
<i>The value is calculated regarding the composition computed based on the standard EN 15804+A2 (2019)</i>		
Global Warming Potential (GWP) - A1-A3		56
(kg, CO ₂ eq./m²) European average		



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