

# SPECIFICATION DATABASE



GCP13 - 8/24 - V1.0

Royale  
Collection

## Centre Pane 'u' Value - 6.8mm/4mm Annealed (1 x P1)



### 33.2 (18 Argon 90) 4

Coating: PLANITHERM ONE #5

Computed by: Oli Pringle

Computed on: 08/08/2024

Product catalog: United Kingdom

Norms: EN410 (2011-04)

#### Glazing type

**Glazing 1**  
PLANICLEAR (3mm) - Annealed  
PVB STANDARD (0.76mm)  
PLANICLEAR (3mm) - Annealed

**Cavity 1**  
Argon 90% 18 mm

**Glazing 2**  
PLANITHERM ONE  
PLANICLEAR (4mm) - Annealed

#### Simulated performance datas

<b>Luminous Factors</b>	CIE (15-2004)
Light Transmittance (TL)	70%
Outdoor Reflectance (RLe)	22%
Indoor Reflectance (RLi)	23%
<b>Energy Factors</b>	EN410 (2011-04)
Transmittance (TE)	42%
Outdoor Reflectance (Ree)	33%
Indoor Reflectance (Rei)	41%
Absorptance A1 (AE1)	19%
Absorptance A2 (AE2)	6%
<b>Solar Factors</b>	EN410 (2011-04)
Solar Factor (g)	0.48
Shading Coefficient (SC)	0.55
<b>Thermal Transmission</b>	EN673-2011
U <sub>g</sub>	1.0 W/(m <sup>2</sup> .K)
Angle relative to the vertical	0°
<b>Acoustics</b>	EN 12758
<i>Acoustic simulated values</i>	
R <sub>w</sub> (C;Ctr)	37 (-2; -6) dB
R <sub>a</sub>	35 dB
R <sub>a,tr</sub>	31 dB
STC (ASTM E413)	37
OITC (ASTM E1332)	29
<b>Color Rendering</b>	CIE (15-2004)
Transmission (Ra)	97.4
Reflection (Ra)	96.6
<b>Safety Class</b>	EN 12600
Pendulum Body Resistance	1 B1/NPD
<b>Anti-Burglary</b>	EN 356
Burglar Resistance	P1A/NPD
<b>Manufacturing Sizes</b>	
Nominal Thickness	28.8 mm
Weight	26 kg/m <sup>2</sup>
<b>Sustainability</b>	
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	EN 15804- A2 (2019)
(kg. CO <sub>2</sub> eq./m <sup>2</sup> ) European average	47



Verified Results  
EN 410  
EN 673  
www.tuv.com  
ID: 000036859

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 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 R<sub>w</sub> index lies within a range of ±1-2dB. 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.