

TECHNICAL DATA SHEET

DOUBLE GLAZING UNIT (DGU) SOLAR



MADE IN BRITAIN®

STANDARD SIZES CHART (INTERNAL OPENING SIZE)

FRAMED ROOFLIGHTS	FRAMELESS ROOFLIGHTS
300 x 300 mm	300 x 300 mm
400 x 400 mm	400 x 400 mm
500 x 500 mm	500 x 500 mm
600 x 600 mm	600 x 600 mm
600 x 900 mm	600 x 900 mm
600 x 1200 mm	600 x 1200 mm
600 x 1800 mm	600 x 1800 mm
1000 x 1000 mm	1000 x 1000 mm
1000 x 1200 mm	1000 x 1200 mm
1000 x 1500 mm	1000 x 1500 mm
1000 x 2000 mm	1000 x 2000 mm
1000 x 2500 mm	1000 x 2500 mm
1000 x 3000 mm	-



WATER TIGHT

Seamless design ensures exceptional water tightness. Leak-free rooflights



SAFETY GUARANTEED

Robust construction guarantees maximum safety and durability.



AIR TIGHT

Seamless design ensures exceptional air tightness

CONTACT US FOR BESPOKE SIZES: 0345 3400 200 / SALES@TXPRO.CO.UK

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ROOFLIGHT | DOUBLE GLAZING UNIT (DGU) | SOLAR

CONFIGURATION: 6 FT GREY (20 Argon 90) 6 FT | COOL-LITE SKN 176 + LOW EMISSIVITY COATING

SIMULATE PERFORMANCE DATA

LUMINOUS FACTORS		CIE015:2018
Light Transmittance (TL)		67%
Outdoor Reflectance (RLe)		12%
Indoor Reflectance (RLi)		13%
ENERGY FACTORS		EN410:2011
Transmittance (TE)		32%
Outdoor Reflectance (Ree)		32%
Indoor Reflectance (Rei)		33%
Absorptance A1 (AE1)		32%
Absorptance A2 (AE2)		4%
SOLAR FACTORS		EN410:2011
Solar Factor (g)		0.37
Shading Coefficient (SC)		0.43
THERMAL TRANSMISSION		EN673:2011
Ug		1.1 W/(m2.k)
Angle relative to the vertical		0°
ACOUSTICS Acoustic simulated values		EN 12758
Rw (C;Ctr)		36 (-2; -5) dB
Ra		34 dB
Ra, tr		31 dB
STC (ATSM E413)		36
OITC (ATSM E1332)		28
COLOR RENDERING		CIE015:2018
Transmission (Ra)		94
Reflection (Ra)		76.3
SAFETY CLASS		EN12600
Pendulum Body Resistance		1C2/1C2
ANTI-BURGLARY		EN356
Burglar Resistance		NPD

MANUFACTURING SIZES

Nominal Thickness	32.0 mm
Weight	30 kg/m2

SUSTAINABILITY

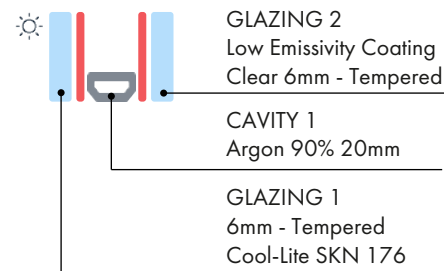
Carbon Footprint

The value is calculated regarding the composition computed based on the standard EN 15804 + A2 (2019)

Global Warming Potential (GWP) A1 - A3	EN 15804+A2 (2019)
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(kg. CO2 eq/m2) European average 55

GLAZING TYPE



PSI VALUES FOR DOUBLE GLAZING

FOR WINDOWS

Metal with thermal break	0.036 W/(m.K)
Plastic	0.031 W/(m.K)
Wood	0.031 W/(m.K)
Wood / Metal	0.033 W/(m.K)

FOR FACADE PROFILES

Wood / Metal	0.055 W/(m.K)
Metal with thermal break (di=100mm)	0.074 W/(m.K)
Metal with thermal break (di=200mm)	0.078 W/(m.K)

Source: ift Rosenheim directive WA-08/3 and WA-22/2 ("Warm edge" working group) / Bundesverband Flachglas (German Flat Glass Association) window data sheets.



Verified Results:
EN 410
EN 673
www.tuv.com
ID: 0000036858

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.
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.