

GLAZING

Many individual factors need to be taken into consideration when specifying your rooflight: thermal efficiency, light transmission, solar gain, fire classification, and noise reduction are just some of these factors. The glazing you choose will have a major impact on how your rooflight performs.

The Trade Range domes are manufactured from polycarbonate. Polycarbonate is a durable, high impact-resistant material and is highly transparent to visible light. In some cases it can achieve better light transmission than many kinds of glass and can be up to 300 times more impact resistant than glass!

Trade Range domes are available in double, triple and quadruple skin and can be supplied Clear, Diffused, Opal, or Cool & Clear.

The Trade Range Domes are manufactured in accordance with European Standards and hold full CE marking according to EN 1873.

SUMMARY OF BUILDING REGULATIONS - WITH REFERENCE TO GLAZING

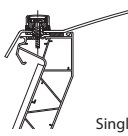
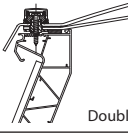
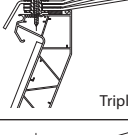
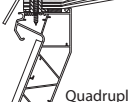
Non Fragility ACR(M)001:2005 - 'Test for the Fragility of Profiled Sheet Roofing Assemblies'

All Trade Range domes are classified 'Class B Non-Fragile', according to ACR(M)001:2005 and when tested, demonstrated full compliance with EN 1873, Soft Body Test, based on an impact energy of 1200 Joules.

Fire Classification EN 13501-1- 'Fire Test to Building Material - Classification'

All Trade Range Rooflights are manufactured using minimum 3mm Polycarbonate. According to EN 13501-1, 3mm polycarbonate achieves B-s1-d0 and therefore attains Class 1 Certification. TP(a) is realised with a solid polycarbonate sheet minimum 3mm thick.

DOMES, PYRAMIDS, TRAPEZOIDS, CIRCULAR

	Glazing	Light Transmission	'G'Value Solar Heat Gain	'U'Value	Sound Reduction (dB) according to DIN52210	Fire classification according to BS EN 15301:1 2007	Impact Resistance
 Single	Clear	88%	82%	5.0 W/m ² K*	12dB	1-3mm: B-s1-d0	> 200 N/mm ²
	Diffused	77%	67%				
	Opal	44%	51%				
	Cool & Clear	48%	36%				
 Double	Clear	77%	67%	2.6W/m2K*	20dB	1-3mm: B-s1-d0	> 200 N/mm ²
	Diffused	77%	67%				
	Opal	44%	51%				
	Cool & Clear	48%	36%				
 Triple	Clear	71%	57%	1.7W/m2K*	22dB	1-3mm: B-s1-d0	> 200 N/mm ²
	Diffused	71%	57%				
	Opal	62%	52%				
	Cool & Clear	45%	31%				
 Quadruple	Clear	66%	49%	1.3W/m2K*	23dB	1-3mm: B-s1-d0	> 200 N/mm ²
	Diffused	66%	49%				
	Opal	57%	45%				
	Cool & Clear	41%	26%				

*U'Value is calculated according to EN 1873 and is based on a 1800mm x 1800mm domelight