

Product overview ♦ Modular rooflights

HeatReflect™ Em-Dome® rooflight



Features

- Reflects up to 68% of Solar Energy
- Maintains proven benefits of natural daylighting, whilst minimising 'solar overheating'
- Reduces carbon footprint with lower energy usage
- More light, less heat – 18% more light and 26% less heat than bronze tinted
- Reflects 100% ultraviolet radiation
- Hot box tested to BS EN ISO 12567-2
- CE certified according to EN 1873

Description

HeatReflect is an advanced solar reflective glazing which reduces ultraviolet radiation. This brings the benefit of natural daylight whilst minimising the heat transmitted through the glazing.

The HeatReflect Em-Dome is constructed from thermoformed extruded polycarbonate sheet, with a heat resistant effect which stops infra-red rays and reduces heat build-up under the rooflight. The rooflight finish is green tinted and transparent.

Applications

HeatReflect Em-Dome rooflights have been used extensively in schools, libraries, other public buildings and also other buildings where minimising the heat build-up is important. Using HeatReflect Em-Dome rooflights also reduces the energy consumption required for artificial lighting and cooling.

Em-Dome rooflights

Available in over 130 sizes, in single, double, or triple glazed, in dome, pyramid or trapezoid permutations.

Polycarbonate glazing

250 times stronger than glass. Virtually unbreakable glazing provides high level of safety and security.

Factory fitted patented security screwbolts

Patented security screwbolts offer a high level of security whilst providing the benefits of a pre-drilled fully assembled dome.

Performance of glazing materials

Typical values	Polycarbonate	
Water tightness	to EN 1873: 2005 pt 5.5	Pass
Impact resistance	to EN 1873 ACR (M): 001 2005	1200 Joule Class B
Air permeability	to EN 12152: 2002	Class A4
Guarantee	Standard	10 years
Fire rated	BS476: Part 3	Class AA
Service temperature		-50 to 120°C

Glazing specification

	HeatReflect Triple skin
Thermal transmission (W/m ² K)	1.78
Light transmission (LT)	43%
Solar heat gain factor (g%)	32
Sound reduction (dB)	22

