

Glass Specification

When selecting the glass for your Big Rooflight, there are several important factors to think about.

Will it be positioned in full sun or shade? How important is thermal performance? Are noise reduction or security priorities? Whatever your requirements, we offer a range of glass options designed to meet your needs, combining performance, practicality, and design seamlessly.



Thermal Performance Options

Every Big Rooflight is engineered to perform as impressively as it looks. Our precision-built systems provide excellent thermal efficiency, helping to maintain comfort all year round.

Our double-glazed units achieve a U-value of $1.0 \text{ W/m}^2\text{K}$, delivering strong insulation within a lighter profile suited to most architectural applications.

For projects where maximum energy performance is essential, our triple-glazed option reaches an outstanding U-value of just $0.7 \text{ W/m}^2\text{K}$, offering industry-leading thermal control without compromising on light or clarity.



Solar Option

For brighter or more exposed locations, our Solar Control Glass provides a sophisticated upgrade, filtering solar energy while preserving true-to-life colours. With a solar heat transmission reduced to just 35% (G-value = 0.35), it keeps interiors cooler and more comfortable, all without compromising your view of the sky.



Noise Reduction

Our rooflights are naturally very quiet, featuring a standard combination of toughened outer glass and toughened laminated inner glass, providing excellent sound insulation and exceptional strength.

For even greater noise reduction, an optional acoustic interlayer is available, delivering the ultimate in acoustic performance.



High Security

If security is a priority, our rooflights come with an internal panel constructed from 13.52mm toughened laminated glass with a 1.52mm PVB interlayer, engineered for maximum strength and protection. This robust combination delivers exceptional resistance to cracking and significantly enhances the safety of your space, making forced entry extremely difficult.

Beyond security, the laminated design also improves durability under thermal stress and everyday impacts, while maintaining clear, unobstructed views. Combined with our heat soak testing, which minimizes the risk of spontaneous breakage, this ensures your rooflight is not only secure but also reliable, long-lasting, and built to perform in any environment.

Glass Values

| Spec | Build-Up | Centre Pane Ug (W/m ² K) | g-value (%) | Acoustic (Rw dB) |
|-------------------------|---|-------------------------------------|-------------|------------------|
| Double Standard (Low-E) | 8T / 16 Ar / 13.52mm T Lam | 1.0 | 50–53% | 37–38 |
| Double Solar (SN70/35) | 8T SN70/35 / 16 Ar / 13.52mm T Lam | 1.0 | 34–36% | 37–38 |
| Triple Standard (Low-E) | 8T / 16 Ar / 6T / 16 Ar / 13.52mm T Lam | 0.6 – 0.7 | 42–48% | 39–42 |
| Triple Solar (SN70/35) | 8T SN70/35 / 16 Ar / 6T / 16 Ar / 13.52mm T Lam | 0.6 – 0.7 | 28–34% | 39–42 |

Light Transmission

| Glass Type | Description | Light Transmission (%) | Solar Gain g (%) |
|------------------------|-----------------------------------|------------------------|------------------|
| Clear Low-E | Standard float + ClimaGuard Low-E | 74 – 78% | 50 – 53% |
| Low Iron Low-E | Extra clear + ClimaGuard Low-E | 78 – 82% | 52 – 55% |
| Clear Solar Control | Float + SunGuard SN70/35 | 68 – 72% | 34 – 36% |
| Low Iron Solar Control | Extra clear + SN70/35 | 70 – 75% | 35 – 38% |

If your rooflight is positioned in a low-light area, extra-clear “low-iron” glass is an ideal choice. It increases light transmission up to 91% and eliminates the slight green tint commonly seen in standard double or triple-glazed rooflights. Low-iron glass is available exclusively as a clear glass option.

Please note: These values are indicative and may vary slightly depending on the glass specification, rooflight orientation, and size.