

## Safelock Glazing System

### Product Overview

The NaturalLight SafeLock system is manufactured with high quality aluminium glazing bars and a unique interlocking system. Incorporating 25mm UV protected structured polycarbonate. With the integration of stainless steel rods, inserted through the glazing module, this has achieved a 'class B non – fragile' classification from the BRE. The SafeLock system complies with part L of the building regulations. This out performs virtually all other traditional roof glazing systems. Units can be supplied with fit for purpose perimeter flashings

Each modular unit is designed to suit specific project requirements. Therefore on-site modification is significantly reduced. This system can be used as a replacement for old patent glazing and rooflight applications as well as offering an alternative to new canopies and walkways. Its modern design de-skills the installation process and is also capable of being manufactured to an infinite length with glazing centres generally 1015mm

All aluminium bars are powder coated as standard to any standard RAL colour. Alternatively any RAL colour can be specified. The applied coating is to BS 6496 and is 80 – 100 microns thick, which is then baked onto the aluminium to give a lasting and quality finish.

### Glazing Options

A choice of glazing tints, in clear, opal or bronze are available in 16mm 'X' structure or 25mm 'X' structure polycarbonate, which comply with part L of the building regulations, offering a high impact strength, excellent optical clarity combined with a good fire rating.

### Performance

Light transmission:

UV absorbing	
Clear -	66%
Opal -	54%
Bronze -	45%

Energy transmission g:

Clear -	62%
Opal -	55%
Bronze -	50%

### 'U' Value

1.7W/m<sup>2</sup>K 25mm

### Fire

BS 476 Part7 - Class 1 spread of flame  
Tp(a) as defined by building regulations and BS2782

### Wind & Snow Loading

0.7kN/m<sup>2</sup> standard  
1.2kN/m<sup>2</sup> enhanced

### Design Info

- BS 5516 1991: design and installation of patent glazing.
- BS 8118 pt 1 1991: Structural use of aluminium.
- BS 6399 pt 2 1995: code of practice wind loads
- BS 5368 pt 1.4 1994: Method of testing windows
- BS 6375 pt 1 1989: Performance of windows  
Classification for weathertightness
- CP3 chap V pt 2: Wind loads
- BS 6399 pt3 1988: Code of practice for imposed roof loadings.

