



Daylight Systems

xlokultra

PANEL GLAZING SYSTEM





Rooflights are an excellent way of letting natural light in



Daylight Systems

Natural daylight

Panel glazing systems are fully factory assembled to allow fast and simple site installation without glazing experience. Brett Martin Daylight Systems offers safe, effective rooflights that remain simple to install and are very cost competitive.



- Improves concentration
- Leads to better productivity
- Creates environments people want to spend time in
- Daylight significantly improves the internal environment of a building and can reduce energy costs.
- Buildings must have appropriate, adequate lighting.
- Rooflights provide good natural lighting.



Brett Martin Daylight Systems is the UK's largest rooflight manufacturer, providing the widest variety of rooflight products ever available from one source.

Panel Glazing Systems

Panel glazing systems utilise flat panels of structured polycarbonate that allow lead flashing at the up-slope edge to sit flat against the glazing, for quicker installation and a watertight fit. Structured polycarbonate panels are factory assembled with extruded aluminium bars which inter-link on site to behave as one, for a fully water managed system. Panels can be linked to exactly fit any length required, straight or curved. The systems are ideal for both commercial and industrial applications, such as pitched glazing, stadia, vertical glazing, covered walkways and refurbishment of Georgian wired glass and Northlights.

Unique features

- Adaptable factory assembled panel glazing suitable for any roof type
- Designed for simple, fast installation
- Interlocking panels link seamlessly for fast installation to exactly fit any length, straight or curved
- Glazing bars finished with high quality powder coating in any colour
- Glazing bars have integral drainage channels
- Low U value and non-fragile options to meet all regulations

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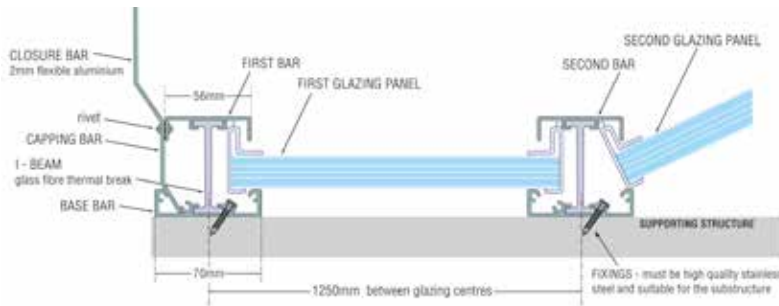
Xlok Ultra is a robust and versatile, non-fragile panel glazing system, glazed in 25mm structured polycarbonate. The system achieves Class B non-fragility and the 1.6W/m²K U value easily complies with Part L regulations.



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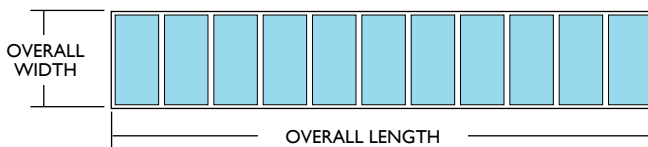
Xlok Ultra is a robust and versatile, non-fragile panel glazing system glazed in 25mm structured polycarbonate with strong glass fibre internals. This heavy duty wide span system incorporates glazing bars joined by a carefully engineered I-beam and is ideal for mono or dual pitch glazing, Northlight replacement, covered walkways and canopies.

Section detail



- Spans up to 4.5m between supports and up to 9m as ridge glazing (with central support by others)
- U value of 1.6W/m²K easily complies with Part L regulations
- Design incorporates complete thermal break for excellent insulation properties, minimising heat loss and any risk of condensation or cold spots on internal surfaces
- Achieves Class B non-fragility to ACR[M]001:2000
- Extremely high loading performance, ideal for high snow or wind loads
- Top hung vents can easily be included in the run length
- Low profile glazing bars allow simple flashing completion
- Xlok is available with top hung vents and in almost all cases it is possible to link these into any ventilation or sensor system in operation

Project glazing size



overall width = individual panel length (up to 6000mm)

overall length = total no. of panels x individual panel width (1005mm standard) + 90mm

Installation



1. Fix bar



2. Slot in glazing panel



3. Lay onto kerb

Structure

Integral main profile assembly comprises top and bottom extruded aluminium cappings to BS1474 and a main, structural glass reinforced, polyester resin pultruded profile. The main profile assembly is designed with internal water management and a fully shielded seal system.

Available in mill finish or powder coated white to RAL 9910 BS6496. Other colours are available on request. Fixings must be high quality stainless steel, of a type suitable for the sub-structure to which the panels are being fixed. Stainless steel greatly reduces the possibility of an electrolytic reaction at the bar/fixing interface.



Technical Support

For further details on Xlok Ultra installation see Technical Bulletin 148.

Sheet specification

Panel width:	up to 1250mm
Panel length:	up to 6000mm
Typical span capacity:	4500mm between supports
Weight:	6.0kg/m ² approx.
Non-fragile to ACR[M]001:2000:	Class B
Wind and snow loading:	Up to 2.0kN
Glazing:	25mm structured polycarbonate UV protected, solar control available at extra charge
Light transmission:	68% clear S 30% opal V 15% bronze B
Thermal insulation value:	1.6W/m ² K
Fire ratings:	Class 1 to BS476 part 7 spread of flame Class 0 as defined by Building Regulations and BS476 part 6 Tp(a) as defined by Building Regulations and BS2782

* CAD details are available by fax, post or email

* Consult our technical team for non-standard sizes or conditions

This system is designed and engineered to allow accordance with BS6399 part 2 1995: code of practice for wind loads, BS6399 part 3 1988: code of practice for imposed roof loadings, and BS8118 part 1991: structural use of aluminium.

Transport, Handling and Maintenance

Xlok Ultra panels are delivered to site with a protective film covering the glazing, which must be removed after installation. Panels should be treated with care. Unloading and manoeuvring is usually easiest by hand. Panels must never be exposed to weather before installation and should be stored in clean, dry conditions, protected against direct sunlight and in an upright position.

Polycarbonate rooflights should only be cleaned with copious amounts of warm soapy water solution and a soft cloth. Never use solvents or alkaline cleaners or thinners. Do not scrub with brushes or sharp instruments, as these will mark the surface. If a rooflight is found to be damaged it must be replaced.



Technical Support

For NBS details see NBS specification 049. For further details on polycarbonate care see Technical Bulletin 140.



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