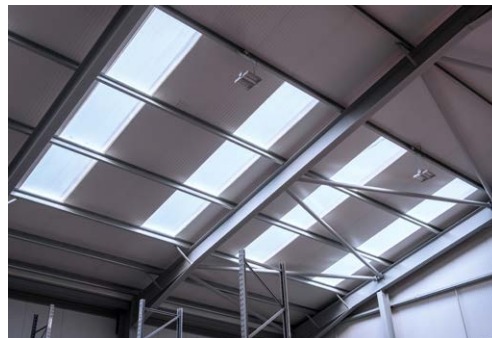




Plastic Sheets

marlon *InstaLite*

TRAPEZOIDAL POLYCARBONATE ROOFLIGHT





Factory Assembled Trapezoidal Polycarbonate Rooflights

Marlon InstaLite's are thermally efficient double skin trapezoidal polycarbonate rooflights providing a U value of 1.4 W/m²K as standard. Designed and developed by Brett Martin, Marlon InstaLite's seamlessly integrate with composite panel roofing systems in wide span metal frame building applications. Available in a wide selection of polycarbonate profiles to match the metal roof corrugation, in lengths from 1200-4500mm, Marlon InstaLite's are fully factory assembled and delivered to site ready to fit.

Inherent properties of polycarbonate – ultra clear, high light, strength and resilience, UV resistance, impact resistance

- Factory assembled trapezoidal polycarbonate rooflight
- Thermally insulating, providing U value of 1.4W/m²K or lower
- Excellent quality natural light transmission
- Compatible with standard composite roof panels
- Can be tailored to meet specification requirements
- Achieves non-fragility and fire performance requirements
- Rapid fit and fix installation

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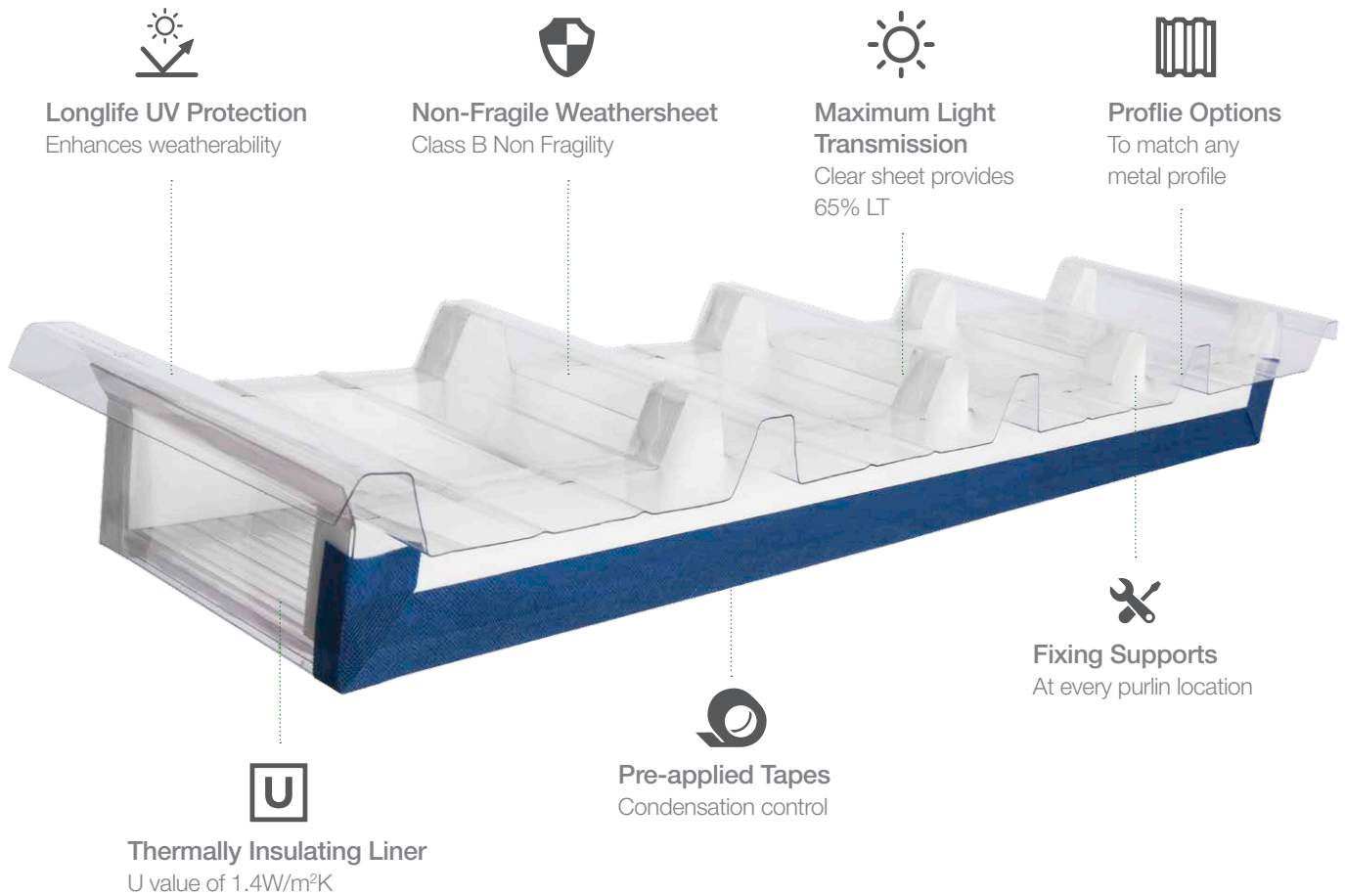
TRAPEZOIDAL POLYCARBONATE ROOFLIGHT

Standard Product Composition

Liner: 16mm 7wall Marlon ST Longlife multiwall polycarbonate sheet

Weathersheet: 1.3mm Marlon CS Longlife corrugated polycarbonate sheet

Foam Fillers: Precision cut foam fillers to exceptionally high levels of accuracy, optimising seals and minimising energy loss



Metal Frame Building Applications

Factories
Warehouses
Distribution Centres
Retail Buildings
Supermarkets
Leisure Facilities
Agribusiness



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Properties

- **Impact Resistance**

A corrugated polycarbonate weather sheet provides exceptional impact resistance, up to 200 times that of glass. Its strength is maintained over a broad temperature range (-40 to +130°C). Co-extruded Longlife UV protection safeguards the sheet against the effects of weathering so that the sheet retains its properties and colour. Correctly installed, the rooflight meets the requirements of ACR[M] 001: 2014, Class B non-fragility.

- **Thermal Insulation**

The liner panel is comprised of a thermally efficient 16mm 7 wall multiwall polycarbonate sheet as standard providing a U-value of 1.4 W/m²K. A range of multiwall options are available which can be specified to meet the insulation requirements of the project.

- **Light Transmission**

Natural daylight has been proven to have a positive effect on the internal environment of buildings by improving productivity, retail spending and general well-being. Depending on the application, Marlon InstaLite's clear polycarbonate option optimises natural light transmission whilst Diffuser Opal minimises shadowing and glare. Combinations of weather sheet and liner panel can be specified to achieve light transmission and solar transmission targets.

- **Fire Rating**

Marlon InstaLite's meet the highest classification of European testing (EN13501) and in the event of a fire it will soften and open, allowing smoke, heat and gases produced by the fire to escape. This 'venting' property means that damage within buildings can be limited. For more details on fire ratings please contact our technical department.

- **Warranty**

There is a comprehensive warranty against loss of light transmission, yellowing and weather impact available for this product. Contact Brett Martin for further information.

- **Weathertightness**

Fillers & Seals

Sealing tape and breather tape is factory applied to the Marlon InstaLite to reduce the risk of condensation and prevent ingress of moisture and insects, keeping rooflights clean and optimising light transmission performance.

Marlon InstaLite's feature foam fillers at each purlin centre to provide rigid fixing supports and avoid potential dishing of the fixing and pooling of water for maximum weathertightness.

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Standard Product Options

- Lengths**
 From 1200mm - 4500mm.
- Thicknesses**
 Specified to suit the composite roofing panel thickness.
- Liner Panel**
 16mm 7wall Marlon ST Longlife multiwall polycarbonate sheet as standard achieves a U value of 1.4 W/m²K. Alternative multiwall options are available for specification to achieve lower U values.
- Weathersheet**
 Marlon CS Longlife polycarbonate corrugated profiles are specified to match the roof profile.

Marlon InstaLite Rooflights						
	U Value (W/m ² K)	Light Transmission (%)	Solar Transmission (%)	Weight (kg/m ²)	Thickness (mm)	Length (mm)
Clear	1.4	65	58	4.7	24-200	1200-4500
Diffuser	1.4	54	32	5.0	24-200	1200-4500

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