



Daylight Systems

Marlon CS Longlife Single Skin

Consult Brett Martin Daylight Systems early in the design process as we can provide in-depth assistance with design and specification.

A single skin polycarbonate rooflight, compatible with single skin cladding systems.

Class B non-fragile to ACR[M]001:2005 and withstands loads typical of accidental foot traffic or a falling person without failure when new and fully fixed, although such loads may result in deflections which need to be pushed out.

Marlon CS Longlife rooflights are designed for a service life in excess of 20 years. Caution is required when specifying polycarbonate in-plane rooflights as it requires careful handling and installation in order to realise the potential benefits.

These rooflights have sufficient safety margin to ensure they will be non-fragile when new, and they will retain their structural properties for 20 years, providing correct precautions are taken. However, they do not have sufficient safety margin to compensate for any deterioration to other aspects of the installation. Non-fragility of an assembly containing Marlon CS rooflights would be maintained for 20 years if there was no deterioration to any aspect of the original installation, but in practice, with typical maintenance regimes, it is likely that it would remain non-fragile for 5-15 years.

Consult Brett Martin Daylight Systems technical literature for further details.

NBSPlus

Follow this path on NBS PLUS software:

Click: [H31 METAL PROFILED / FLAT SHEET CLADDING / COVERING](#)

Click: [160 PLASTICS CLADDING](#)

Click: [BRETT MARTIN DAYLIGHT SYSTEMS](#)

Click: [POLYCARBONATE CONSTRUCTION](#)

Click: [SINGLE SKIN ROOFLIGHTS \(NO INSULATION\)](#)

Click: [5-20 YEARS EXPECTED NON-FRAGILITY](#)

Click: [MARLON CS LONGLIFE SINGLE SKIN](#)

Full NBS specification clause OVER PAGE

NBS Specification Clause: Marlon CS Longlife Single Skin

System type:	Single skin to match roof cladding system
Material:	Solid, clear polycarbonate with diffusing internal surface, formed from 2mm thick material Tinted sheets are also available.
Manufacturer:	Brett Martin Daylight Systems, Sandford Close, Aldermans Green Industrial Estate, Coventry, West Midlands CV2 2QU. Tel: 024 7660 2022. Fax: 024 7660 2745. Email: daylight@brettmartin.com Web: www.daylightsystems.com
Product ref:	Marlon CS Longlife Single Skin rooflight.
Fragility class to ACR[M]001:	To be Class B non-fragile to ACR[M]001:2005 and to withstand loads typical of accidental foot traffic or a falling person without failure when new and fully fixed.
Accessories:	For all laps where polycarbonate could come into contact with plastisol coated sheeting a barrier tape (NOT PVC) must be applied to ensure no contact is possible.
Primary sheet fasteners:	5.5mm diameter fasteners fitted with large washers with bonded seals, located in the centre of the top flange of the purlin. Drill 10mm diameter oversized holes using a sharp drill bit to produce a clean cut hole. Polycarbonate must not be allowed to come into contact with plastisol coating, PVC tape or a number of other materials - please refer to Technical Bulletin 141 for full details. The use of lightweight washers must be avoided.
Fastener profile location:	Fix through troughs in profile, in accordance with Brett Martin Daylight Systems recommendations, Technical Bulletin 137. Special care is required when fixing polycarbonate rooflights, see Technical Bulletin 141 for details.
No. of fasteners per sheet width:	Eaves and end laps: Minimum of one per trough, with a maximum of 200mm between each fastener. Intermediate supports: As for eaves and end laps
Endlaps size:	150mm, with the fixings at the centre of the lap. Where polycarbonate could come into contact with plastisol coated sheeting a barrier tape, NOT PVC must be applied to ensure no contact is possible. Butyl backed film tapes are suitable (eg Ecoflex). See Technical Bulletin 141 for further details.
Side laps stitching:	Stitching screws at 300-400mm centres on the crown of the corrugation. Marlon CS Longlife to lap over adjacent metal sheets both sides where possible. Elastomer lap bolts must be used where Marlon CS Longlife is lapped under adjacent metal sheets.
Sealing laps:	Sheets overlapped by metal: At end laps 2no. rows of 6x5mm UV stable, pale coloured cross-linked butyl mastic, positioned 25mm above and below the line of fixings. At side lap 6x5mm UV stable, pale coloured cross linked butyl mastic on the crown just outside the line of the fixings. Sheets underlapped by metal: As for sheets overlapped by metal Sheets lapped by plastics: As for sheets overlapped by metal
Special features:	Durability: will remain fit for purpose for at least 20 years subject to normal conditions. Light transmission: 87% Length: maximum sheet length 5.8m UV Protection: Co-extruded layer containing high levels of UV absorber on the top surface to protect against discolouration for at least 20 years. Performance proven by accelerated weathering tests showing light transmission reduced by less than 1.5% after 2000 hours exposure to QUV testing. Fire rating: Class 1 to BS476 Pt 7 (deemed to be SAA to BS476 pt 3, by Building Regulations)



Daylight Systems

Tel: 024 7660 2022

Fax: 024 7660 2745

Email: daylight@brettmartin.com

www.daylightsystems.com