ADUR & WORTHING
PLANNING SERVICES
PLAN AWDM/ 1358/12.
DATE VALID - 7 NOV 2013

BRETT MARTIN

Daylight Systems

Trilite 3.0 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 GRP rooflight, compatible with single skin cladding systems.

Trilite 3.0 rooflights are designed for a service life in excess of 30 years and there should be no significant discolouration for at least 20 years or significant loss of structural properties for at least 25 years.

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 minor damage.

These rooflights have sufficient safety margin to ensure they will be non-fragile when new, and they will retain their structural properties for at least 25 years. However, they do not have sufficient safety margin to compensate for any deterioration to other aspects of the installation. Non-fragility would be maintained for at least 25 years if there was no deterioration to any aspect of the original installation, but in practice, with typical maintenance regimes, it is likely that an assembly containing these rooflights would remain non-fragile for 5-20 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: **GRP CONSTRUCTION**

Click: **SINGLE SKIN ROOFLIGHTS (NO INSULATION)**

Click: **5-20 YEARS EXPECTED NON-FRAGILITY**

Click: **TRILITE 3.0**

BBA BRITISH BOARD OF AGRÉMENT
CERTIFICATE No 04/4114

Full NBS specification clause OVER PAGE

SPECIFICATION - 004 Nov '08

NBS Specification Clause: Trilite 3.0 Single Skin

System type:	To match roof cladding system.
Material:	Natural, clear translucent GRP, 3.0kg/m^2, 1.7mm thick (tinted sheets 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:	Trilite 3.0 single skin rooflight, to have full BBA approval.
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:	Not applicable
Primary sheet fasteners:	5.5mm diameter fasteners fitted with large washers with bonded seal, located in the centre of the top flange of the purlin. 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 126. Fixings should not be over tightened.
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.
Side laps stitching:	Stitching screws at 300-400mm centres on the crown of the corrugation. Trilite 3.0 to lap over adjacent metal sheets both sides where possible. Elastomer lap bolts must be used where Trilite 3.0 is lapped under adjacent metal sheets.
Sealing laps:	Sheets overlapped by metal: At end laps 2no. rows of 6 x 5mm UV stable, pale coloured cross-linked butyl mastic, positioned 25mm above and below the line of fixings. At sidelaps 6 x 5mm 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: To remain fit for purpose for at least 30 years subject to normal conditions. Rigidity: Maximum deflection 5.0mm under 3-point bending test to BS2782 Pt 10: Method 1005 1977 (EN63) Light transmission: 70-75% UV Protection: Superlife™ surface protection and UV stabilised resin system to protect against discolouration and degradation to prevent significant discolouration for at least 20 years. Performance proven by accelerated weathering test showing delta E less than 10 and light transmission reduced by less than 12% after 3000 hours exposure to QUV testing, comprising cycles of 4 hours of UVA340nm at 60°C and 4 hours condensation at 40°C. Fire rating: SAA to BS476 Pt 3 and Class 1 to BS476 Pt 7 (alternative fire ratings available) BBA certificate number 04/4114

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