



Daylight Systems

ritchlight

MONO & DUAL PITCHED ROOFLIGHTS



Ritchlight Mono & Dual Pitched Rooflights

Custom-built Ritchlight mono and dual pitched rooflight systems are a popular choice for bringing natural daylight into many buildings creating brighter and more welcoming spaces.

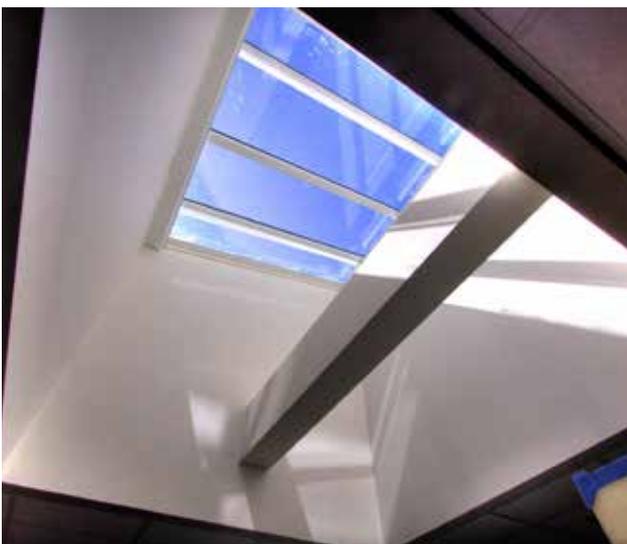
These sloped rooflights, with a minimum 15° pitch, are widely specified for schools, public buildings, retail developments and homes, both new-build and refurbishment, and are perfect too for creating canopied courtyard areas by abutment to a wall plate purlin. Specially made from premium quality aluminium glazing bars and glazed with either polycarbonate or glass, the opportunities are endless as any run length is achievable. These mono and dual pitched rooflights provide a cost effective rooflighting solution which also comes with a 20-year warranty.

Ritchlight Mono

Ritchlight mono pitch is a single sloped rooflight, suitable for both pitched and flat roof projects, configured to match the slope on pitched roofs, or mounted on a sloped support upstand at a recommended minimum pitch of 15° on flat roofs. They can also be designed to suit new or replacement northlights.

Ritchlight Dual

Ritchlight dual pitch is a double sloped rooflight and can be self-supported using aluminium ridge bars at 20, 30 or 45° angles or alternatively can be supported by a builders support structure at the ridge.



The specifiers' choice

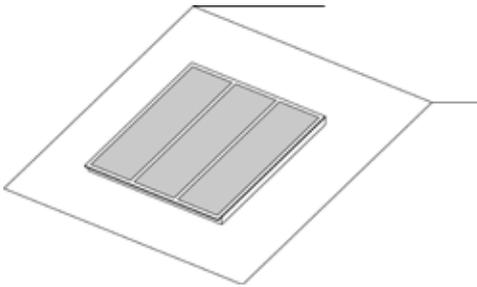
Brett Martin's team of technical advisers are with you every step of the way from site survey through to installation on site by our own dedicated installers.

Each Ritchlight mono or dual pitched rooflight is precision-engineered to meet specification and we'll help ensure your building meets Part L of the Building Regulations with U values as low as 1.1k/Wm².

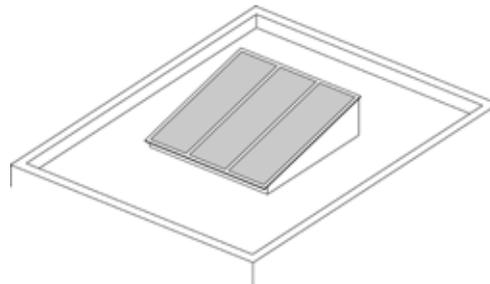
Ritchlight mono and dual pitched rooflights are an ideal choice for introducing maximum daylight into interior spaces. Using long-span glazing bars, slope lengths of 6m are possible, depending on the angle of the slope and imposed loadings. For slope lengths over 2.8m, intermediate structural supports by others are necessary as well as transverse aluminium bars to join the glass.

Configurations

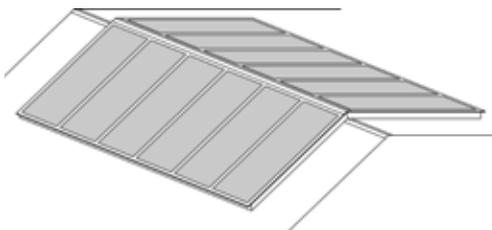
Mono on sloped roof



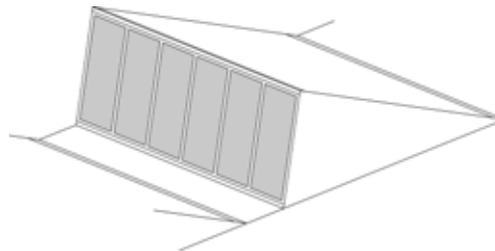
Mono on flat roof



Dual on a sloped roof

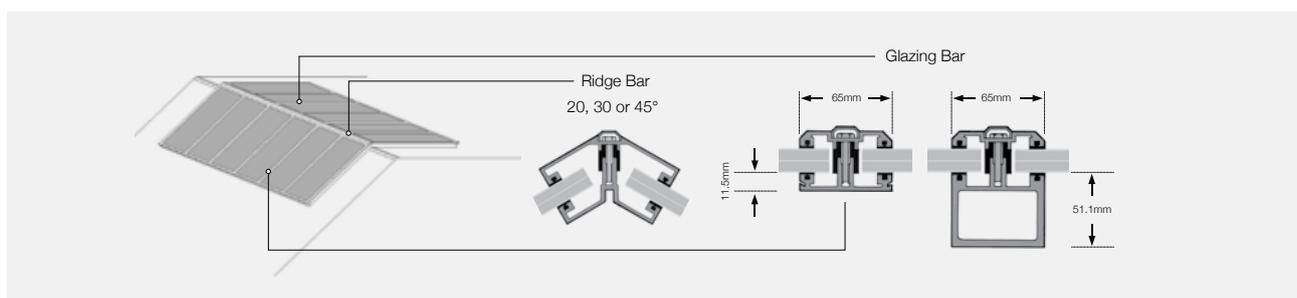


Mono in a northlight



Glazing bars

The Ritchlight glazing bar system consists of superbly engineered aluminium profiles, polyester powder coated to standard colours with other colours available at an additional cost. Standard or major glazing bars are used, depending on the span and length of the rooflight and glazing material, with glazing bar centres usually 650mm for glass and 1000mm for polycarbonate. Similarly a ridge bar is used for self-supporting Ritchlight dual pitch rooflights.



Glazing

Your Ritchlight rooflight can be specified with glass or multiwall polycarbonate to suit your requirements.

Glass

Almost any glass can be used including Pilkington Activ™ Self-cleaning and the wide range of glass available for solar control and improved thermal insulation.



Grey

Clear

Bronze

Polycarbonate

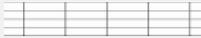
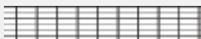
Manufactured by Brett Martin, Marlon ST Longlife polycarbonate is best known for its thermal insulation, lightweight, high impact resistance and durability characteristics and comes with a co-extruded UV protection layer on one side.

Service temperature

Polycarbonate's mechanical performance is known to remain stable in prolonged service in temperatures ranging from -40°C to +100°C.

Fire performance

The fire performance of Marlon ST 25mm Fivewall has been independently tested and the following classification obtained: UK BS476: CLASS 1Y.

Material	U-value W/m ² K	Light Transmission DIN 5036
GLASS		
Standard specification Clear toughened outer (4mm or 6mm) 6.4mm clear low E laminated inner	1.6	73 - 75%
Soft coat for improved insulation Clear toughened outer (4mm or 6mm) 6.4mm clear soft coat Low E laminated inner	1.1	76%
Antisun tinted outer Bronze or grey Antisun toughened outer (4mm or 6mm) 6.4mm clear low E laminated inner	1.6	Bronze 52% (4mm) 42% (6mm) Grey 46% (4mm) 35% (6mm)
Soft coat inner and Antisun tinted outer Bronze or grey Antisun toughened outer (4mm or 6mm) 6.4mm clear soft coat Low E laminated inner	1.1	Bronze 52% (4mm) 42% (6mm) Grey 48% (4mm) 38% (6mm)
MULTIWALL POLYCARBONATE		
25mm Fivewall		
Clear S 	1.6	68%
Opal V	1.6	30%
Bronze B	1.6	11%
25mm Solar Control		
Heatguard Opal	1.6	7%
32mm Sevenwall		
Clear S 	1.2	64%
Opal V	1.2	33%
Bronze B	1.2	6%



Clear S



Bronze B



Opal V



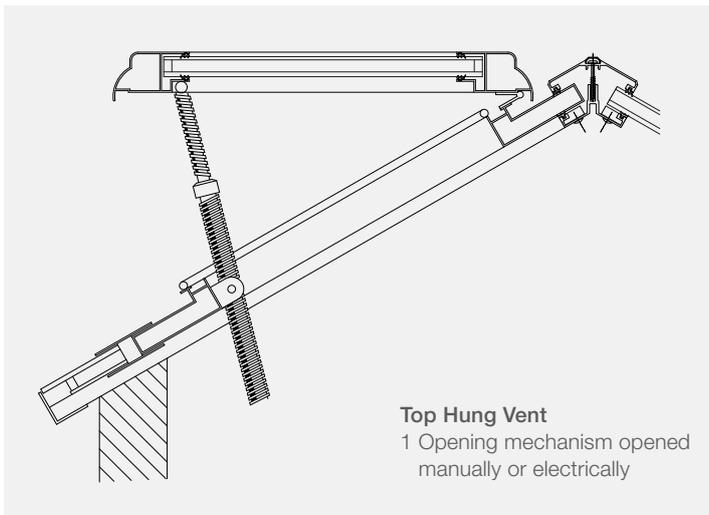
Heatguard Opal

Upstand specification

The support upstand, usually built from timber, must be constructed to the overall external and internal sizes as agreed with Brett Martin Daylight Systems and it is to be fully weathered. The upstand should be splayed to suit the angle of the slope, measuring a minimum of 75mm wide and a minimum of 150mm high from the finished roof level. On flat roofs the supporting upstand should be sloped to the recommended minimum pitch of 15°.

Ventilation

To comply with Building Regulations and make the most of Ritchlight's ability to create a light, airy welcoming internal environment, top hung vents can be specified for Ritchlight rooflights. These can either be manual or electrically operated with the electric option also offering the ability to be specified with rain, wind and heat sensors.





Daylight Systems

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