



ROOFGLAZE DOME RANGE

The Roofglaze Dome range is a high quality, universal 'out of plane' rooflight system.

The range is available in a variety of shapes and sizes and whether you're a roofing contractor, an architect, a building contractor or a residential client there is an application for all flat roofing requirements.

Manufactured from extruded white PVC-u they come with a choice of 150mm splayed, 300mm splayed or 160mm vertical upstands. Available in double, triple or quadruple skin polycarbonate glazing they can be specified either spherical or pyramidal. Please refer to the section on glazing for individual performances and refer to the relevant Building Regulations thermal performance requirements.

Installed to the manufacturer's instruction the Dome range offers excellent waterproofing properties. Weathered to the full height of the upstand water penetration is virtually impossible.

The Dome range is available in a wide variety of sizes and can be specified fixed, with or without background ventilation, or with hinged ventilation.

- High quality, cost effective rooflight
- High Security Fixings as standard
- Polycarbonate impact resistant glazing
- UV Stable PVC-u white upstands
- Fully CE Marked products



GLAZING

Many individual factors need to be taken into consideration when specifying your rooflight: thermal efficiency, light transmission, solar gain, fire classification, and noise reduction are just some of these factors. The glazing you choose will have a major impact on how your rooflight performs.

Roofglaze Domes are manufactured from polycarbonate. Polycarbonate is a durable, high impact-resistant material and is highly transparent to visible light. In some cases it can achieve better light transmission than many kinds of glass and can be more impact resistant than glass.

Roofglaze Domes are available in double, triple and quadruple skin and can be supplied Clear, Diffused, Opal, or Cool & Clear. The Trade Range Domes are manufactured in accordance with European Standards and hold full CE marking according to EN 1873.

SUMMARY OF BUILDING REGULATIONS - WITH REFERENCE TO GLAZING

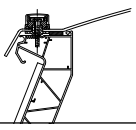
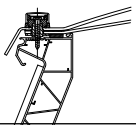
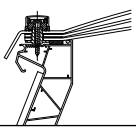

Non Fragility ACR(M)001:2014 - 'Test for the Fragility of Profiled Sheet Roofing Assemblies'

All **Roofglaze Domes** are classified 'Class B Non-Fragile', according to ACR(M)001:2014 and when tested, demonstrated full compliance with EN 1873, Soft Body Test, based on an impact energy of 1200 Joules.

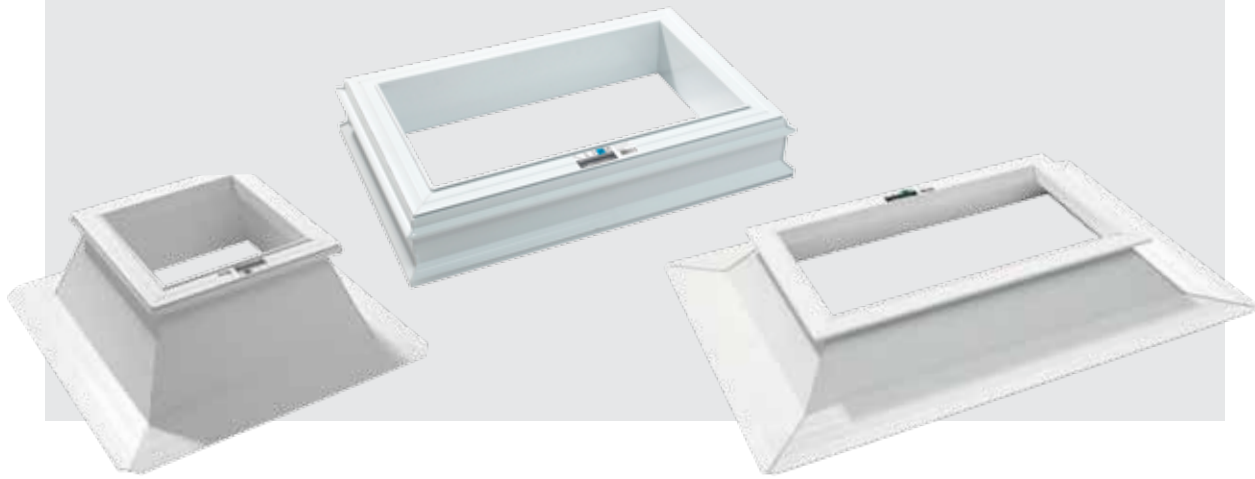
Fire Classification EN 13501-1- 'Fire Test to Building Material - Classification'

All **Roofglaze Domes** are manufactured using minimum 3mm Polycarbonate. According to EN 13501-1, 3mm polycarbonate achieves B-s1-d0 and therefore attains Class 1 Certification. TP(a) is realised with a solid polycarbonate sheet minimum 3mm thick.

DOMES, PYRAMIDS, TRAPEZOIDS, CIRCULAR

	Glazing	Light Transmission	'G' Value Solar Heat Gain	'Ud' Value	Sound Reduction (dB)	Fire classification	Impact Resistance
SINGLE 	Clear	88%	82%	5.0 W/m ² K*	12dB	1-3mm: B-s1-d0	> 200 N/mm ²
	Diffused	77%	67%				
	Opal	44%	51%				
	Cool & Clear	48%	36%				
DOUBLE 	Clear	77%	67%	2.6W/m ² K*	20dB	1-3mm: B-s1-d0	> 200 N/mm ²
	Diffused	77%	67%				
	Opal	44%	51%				
	Cool & Clear	48%	36%				
TRIPLE 	Clear	71%	57%	1.7W/m ² K*	22dB	1-3mm: B-s1-d0	> 200 N/mm ²
	Diffused	71%	57%				
	Opal	62%	52%				
	Cool & Clear	45%	31%				
QUADRUPLE 	Clear	66%	49%	1.3W/m ² K*	23dB	1-3mm: B-s1-d0	> 200 N/mm ²
	Diffused	66%	49%				
	Opal	57%	45%				
	Cool & Clear	41%	26%				

* 'U' Value is calculated according to EN 1873 and is based on a 1800mm x 1800mm dome. *Sound Reduction (dB) according to DIN52210. *Fire classification according to BS EN15301:1 2007



UPSTANDS





Roofglaze Dome Upstands are designed to provide a watertight thermal break between the finished roof and the rooflight. With excellent thermal insulation properties they can offer a more thermally efficient solution to the standard builder's kerb and help improve the overall 'U' value of the unit.

Made from high impact resistant PVC-u, all **Dome** Upstands are completely recyclable, and are manufactured according to the latest environmental standards.

At minimum, all **Dome** Upstands are double walled and watertight welded. The internal is UV stable ensuring the brilliant white finish and avoiding the need for internal decoration. **Dome** Upstands are available in a range of sizes and can also be specified with or without insulation.

Dome Range BF15, BF30 and RO16 upstands are also available with four sided reinforcement. These upstands are used, as standard, in our Automatic Opening Vent Range and with our Rooftop Entrance Rooflight where more frequent operation of the units is required.

All **Dome** Upstands are compatible with most flat roof membrane systems including single ply, GRP, hot melt, asphalt, liquid and lead.

	Height	Material	Profile Width	'U' Value	Fire Resistance
SF15 	150mm	PVC-u	25mm	1.8 W/m ² K	D-s3-d1
RO16 	160mm	PVC-u	65mm	0.2 W/m ² K Without insulation 1.0 W/m ² K	D
BF30 	300mm	PVC-u	35mm	1.0 W/m ² K Without insulation 2.1 W/m ² K	D-s3-d0
BF15 	150mm	PVC-u	25mm	1.2 W/m ² K Without insulation 3.0 W/m ² K	D-s3-d2

BACKGROUND VENTILATION

Background ventilation is available with **Dome** Rooflights. Two options are available:

PERMANENT VENTILATION

In areas hard to access or in areas where security is primary consideration 'non-controllable', permanent ventilation offers continuous ventilation around the perimeter of the dome. Ventilation spacers are inserted between the factory assembled polycarbonate dome and the upstand. The shaped lip on the edge of the outer skin is engineered for maximum weathering and prevents water ingress.

CONTROLLABLE VENTILATION

This is offered by means of a controllable trickle ventilator; air flow is afforded by the use of adjustable tumblers. Internal and external parts are constructed from moulded PVC-u (data sheet are available on request) and can be fitted to either two sides or all four sides of any of the **Dome** PVC-u Upstand Range.*

CONTROLLABLE VENTILATION

PERFORMANCE DATA

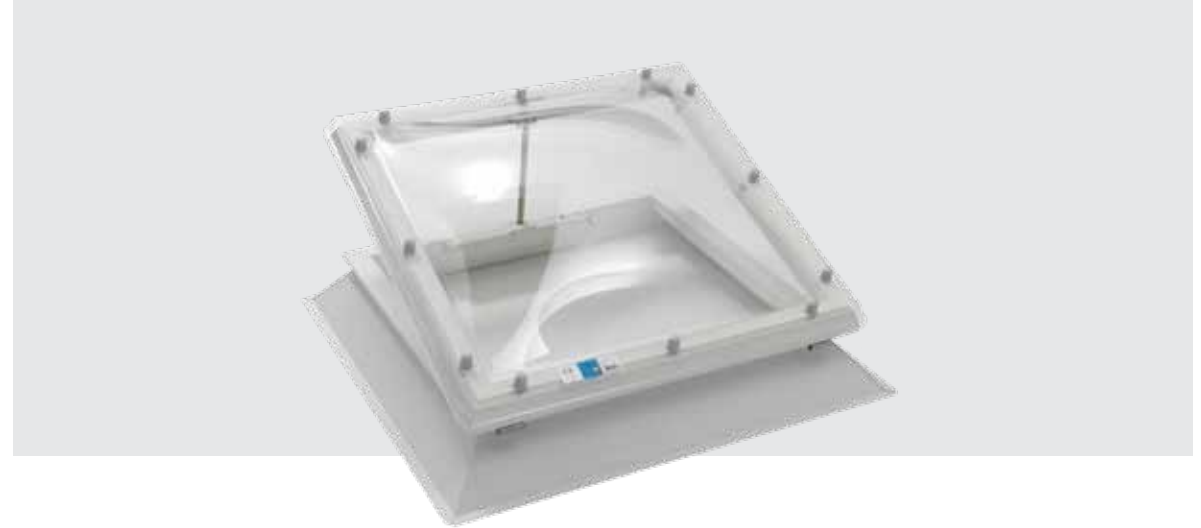
Vent Type	EQA (Equivalent Area)	Geometric Free Area
2000 + Hood + Grill	1360mm ²	2000mm ²
4000 + Hood + Grill	2580mm ²	4000mm ²

CONTROLLABLE VENTILATION

ACOUSTIC VALUES

Vent Type	Values D.n.e.w.
2000 in Open Position	34dB
2000 in Closed Position	39dB
4000 in Open Position	31dB
4000 in Closed Position	36dB

*Whilst controllable ventilation can be fitted to a 150mm upstand please note that BS 6229: 2003, Code of Practice for Flat Roofs with continuously supported coverings, outlines that the waterproofing upstand detail should terminate at least 150mm above the uppermost roof surface to which the roof covering is bonded or dressed.



VENTILATION OPTIONS

Ventilation is the process of changing or replacing air in any space to provide high indoor air quality. It is often the link between your internal space and the outside elements. The correct relationship between insulation, heating, solar gain and ventilation must be achieved in order to provide a pleasant, comfortable, productive indoor space.

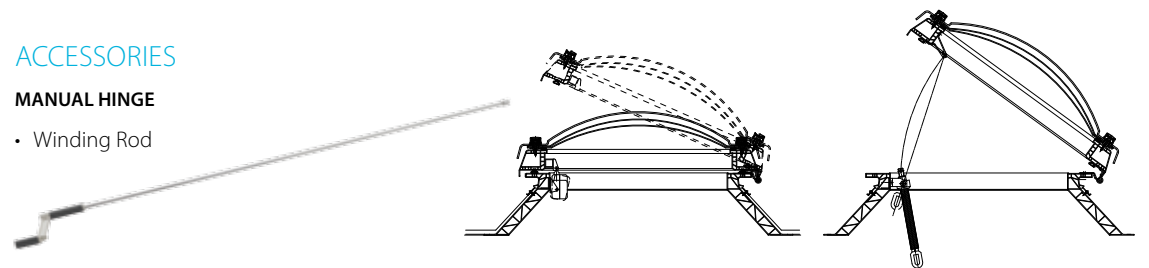
The **Dome** Range is therefore available with a choice of ventilation options.

- Hinged opening domes are available either manually or electrically operated.
- The manually operated option is supplied with a spindle gear and is operated from floor level using a winding pole. Maximum ventilation is approximately 300mm.
- The electrically powered alternative uses a chain link actuator and is operated from a 240V mains supply.
- Maximum ventilation is approximately 400mm with three optional fixed intermediary positions at 100mm, 200mm and 300mm.

ACCESSORIES

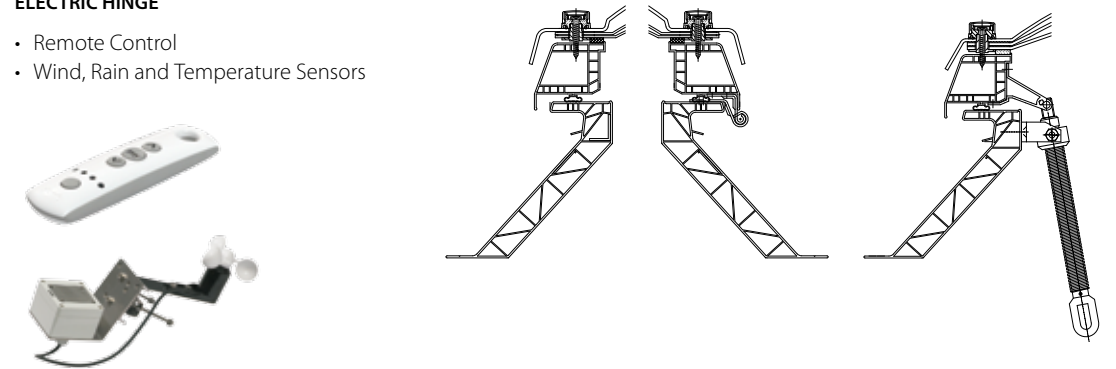
MANUAL HINGE

- Winding Rod



ELECTRIC HINGE

- Remote Control
- Wind, Rain and Temperature Sensors



*Glazing is available in Clear, Diffused, Opal, and Cool & Clear.