COXDOME CLASSIC RANGE

The high quality, cost-effective, universal rooflight system

COXDOME CLASSIC RANGE

- Manufactured to European Standards and CE marking to EN 1873
- Manufactured from extruded white PVC-u
- Choice of 150mm splayed, or 160mm vertical upstands in UV-stable white PVC-u
- Available in double, triple or quadruple skin polycarbonate, impact resistant glazing in domed or pyramidal specifications
- Excellent waterproofing properties when fitted to manufacturer's instructions
- High security fixings as standard
- Glazing available in clear, diffused or opal
- Suitable for installation on a roof pitch between 0° and 15°

Summary of building regulations for glazing

Non-fragility ACR(M)001:2019 – 'Test for the Fragility of Profiled Sheet Roofing Assemblies'.

All trade domes are classified to Class B Non-Fragile according to ACR(M)001:2019 and when tested, demonstrated full compliance with EN 1873 soft body test, based on an impact of 1200 Joules.

Fire Classification EN 13501-1 – 'Fire test to Building Material – Classification'.

All trade rooflights are manufactured using minimum 3mm polycarbonate. According to EN 13501-1, this achieves B-s1d0 and therefore attains Class 1 certification. TP(a) is realised with a solid polycarbonate sheet minimum 3mm thick.

Domes, circular and pyramid glazing

	Glazing	Light Transmission	"G" Value Solar Heat Gain	"Ud Value"	Sound Reduction (dB)	Fire Classification	Impact Resistance
DOUBLE	Clear	77%	67%	2.6W/m²K*	20dB	1-3mm: B -s1-d0	> 200 N/mm²
	Diffused	77%	67%				
	Opal	44%	51%				
TRIPLE	Clear	71%	57%	1.7W/m²K*	22dB	1-3mm: B -s1-d0	> 200 N/mm²
	Diffused	71%	57%				
	Opal	62%	52%				
QUADRUPLE	Clear	66%	49%	1.3W/m²K*	23dB	1-3mm: B -s1-d0	> 200 N/mm²
	Diffused	66%	49%				
	Opal	57%	45%				

*U-values calculated according to EN 1873 and based on a 1800x1800mm domelight. Sound reduction (dB) according to DIN52210.
*Fire classification according to BS EN 15301:1 2007.

COXDOME is a UK manufacturer, providing natural daylight and ventilation solutions since 1954

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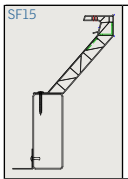
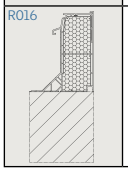
Upstands

COXDOME Classic Range upstands provide a watertight thermal break between the finished roof and the rooflight. They often offer a more thermally efficient solution to the standard builder's kerb and help improve the overall U-value of the unit.

Technical specification

- Available in splayed 150mm (SF15) and vertical 160mm (R016)
- Completely recyclable
- Double-walled and watertight welded
- UV-stable, ensuring brilliant white finish and avoiding need for decoration
- Compatible with most flat roof membranes 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/m²K	D-s3-d1
 R016	160mm	PVC-u	65mm	0.2 W/m²K Without insulation 1.0W/m²K	D

VENTILATION

Background ventilation

Background ventilation is available with the Classic Range as Hit and Miss Ventilation.

Hit and miss ventilation

This is offered by means of a controllable ventilator; airflow is afforded by the use of adjustable tumblers. Internal and external parts are constructed from moulded PVC-u and can be fitted to just two sides, or all four sides, only on 150mm upstand.

Hit and miss ventilation performance data

Vent type	EQA (Equivalent Area)	Geometric Free Area
2000+Hood+Grill	1360 mm²	2000mm²
4000+Hood+Grill	2580mm²	4000mm²

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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 our internal space and the outdoor elements. The correct relationship between insulation, heating, solar gain and ventilation must be achieved in order to provide a pleasant comfortable and productive indoor space.

With this in mind, the Trade Range is available with the following options:

- Hinged opening domes are available either manually or electronically operated
- The manual option is supplied with a spindle gear and is operated from floor level using a winding rod; maximum ventilation is approximately 300mm
- The electronic option uses a chain link actuator and is operated from a 240V power supply
- Maximum ventilation is approximately 400mm, with optional intermediary positions at 100mm, 200mm and 300mm

ACCESSORIES

Manual hinge

- Winding Rod

Electric hinge

- Remote Control
- Wind and rain sensors

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COXDOME CLASSIC RANGE - Circular

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COXDOME CIRCULAR

COXDOME Circular is available in a range of sizes with double or triple skins. Manufactured with a double layer Glass Reinforced Plastic (GRP) and polyurethane insulation, the upstands are compatible with most roofing materials.

Technical Specification

- Spherical glazing available in clear, diffused or opal
- Hinged opening domes are available either manually or electronically operated
- The manual option is supplied with a spindle gear and is operated from floor level using a winding pole; maximum ventilation is approximately 300mm
- The electronic option uses a chain link actuator and is operated from a 240V power supply
- Maximum ventilation is approximately 400mm, with optional intermediary positions at 100mm, 200mm and 300mm

NOTE: Hit and Miss background ventilation is not available in the Circular range.

	Material	Profile Width	"U" Value	Fire Resitance
150 mm	GRP	10mm	1.6W/m²K*	Class E
300 mm	GRP	20mm	0.95W/m²K*	Class E
500 mm	GRP	20mm	0.95W/m²K*	Class E

Rooflight	Opening		Upstand		
Diameter	Manual	Hinge	150mm GRP	300mm GRP	500mm GRP
600mm	•	•	•	•	•
700mm	•	•	•	•	•
800mm	•	•	•	•	•
900mm	•	•	•	•	•
1000mm	•	•	•	•	•
1100mm	•	•	•	•	•
1200mm	•	•	•	•	•
1400mm	•	•	•	•	•
1500mm	•	•	•	•	•
1800mm	•	•	•	•	•
2000mm	•	•	•	•	•
2200mm	•	•	•	•	•

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