

# Flat Roof Dome

## Roof Windows



Keylite Flat Roof Domes are thermoformed with a triple skin construction. Polycarbonate is virtually unbreakable, with an impact strength 250 times greater than glass. Keylite Flat Roof Domes can be supplied with a clear or frosted finish.

### Features

- ▶ Triple skin polycarbonate (clear or frosted) and PVCu 150mm splayed upstand.
- ▶ U-Value of 1.3W/m<sup>2</sup>k.
- ▶ Patented security screwbolts.
- ▶ Extended range of ventilation, access, upstands also available upon request.
- ▶ New 150mm high Upstand is complete with plasterboard groove as standard

### Guarantee

- ▶ Keylite Flat Roof Domes have a 10 Year guarantee.
- ▶ 1 year accessories guarantee.
- ▶ Electric Actuator - 24 month guarantee.

### Dome Options

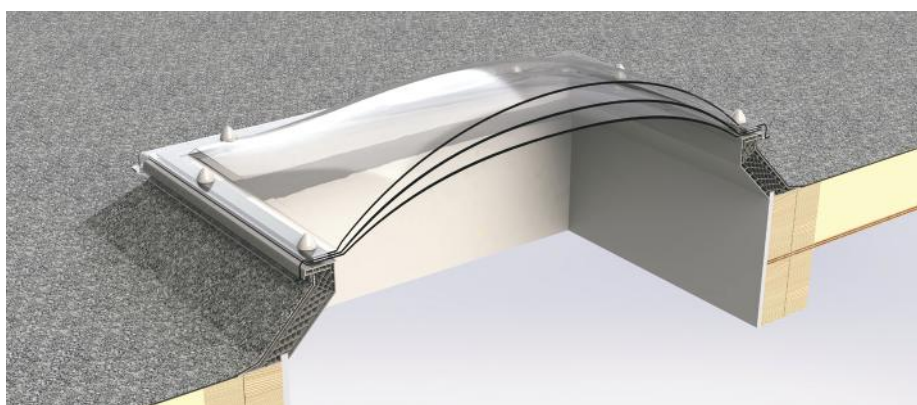
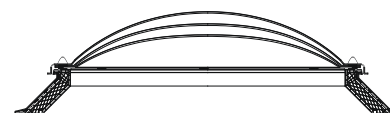
Dome Shapes	Square, Rectangular and Circular
Finish	Clear, Frosted or Heat reflection
Light Transmission	Clear 70%, Frosted 45%, Heat Reflection 40%
Solar Gain	Clear 60%, Frosted 43%, Heat Reflection 44%
Fire Rating	BS 476: Part 3 AA BS 476: Part 7 Class 1 Class 0 for Building Regulation Purposes

### Upstands

Construction	Extruded Multi Chamber PVCu proprietary upstand
Thermal Value	U-Value of .89W/m <sup>2</sup> k independently Hot Box tested
Insulation	Can accommodate up to 150mm of roof insulation if a 300mm high upstand is used.
Waterproofing	Suitable for build-up felt, asphalt, single ply, hot melt and liquid applied membranes

### Ventilation Options

Construction	Proprietary extruded PVCu hinged opening frame
Operation	Motorised Linear 24v DC Actuator Opening to 160°
Other Options	Controllable trickle vent, Controllable rotating vent, Powered extractor fan, manual spindle

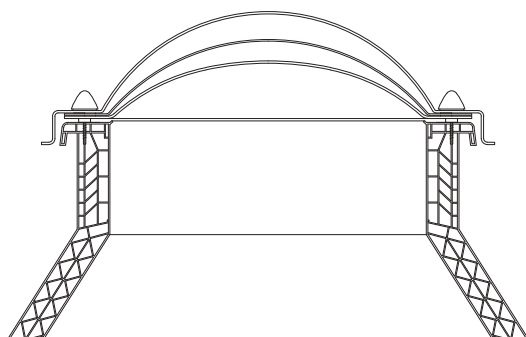


## Technical Information

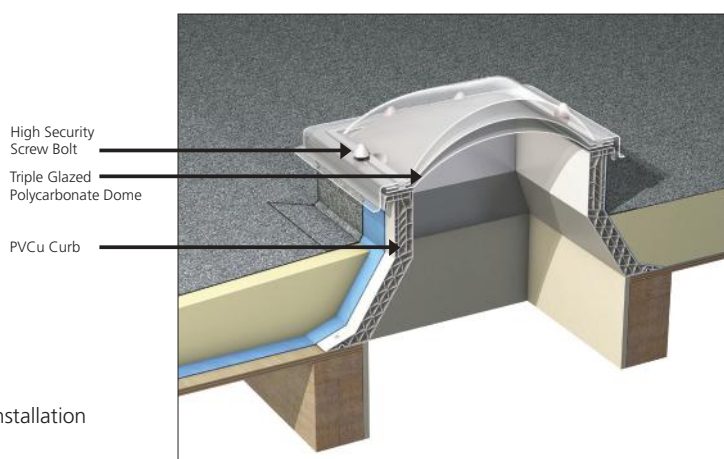
Structural Opening Size		600x600	600x900	800x800	900x900	900x1200	1000x1000	1000x1500	1200x1200
Overall Upstand Size		800x800	800x1100	1000x1000	1100x1100	1100x1400	1200x1200	1200x1700	1400x1400
Visible Glass Size		435x435	435x735	635x635	735x735	735x1035	835x835	835x1335	1035x1035
Fixed	Clear	FRD-S6	FRD-R69	FRD-S8	FRD-S9	FRD-R912	FRD-S10	FRD-R115	FRD-S12
	Frosted	FRD-S6-FR	FRD-R69-FR	FRD-S8-FR	FRD-S9-FR	FRD-R912-FR	FRD-S10-FR	FRD-R115-FR	FRD-S12-FR
Manual Opening	Clear	FRD-S6-M	FRD-R69-M	FRD-S8-M	FRD-S9-M	FRD-R912-M	FRD-S10-M	FRD-R115-M	FRD-S12-M
	Frosted	FRD-S6-FR-M	FRD-R69-FR-M	FRD-S8-FR-M	FRD-S9-FR-M	FRD-R912-FR-M	FRD-S10-FR-M	FRD-R115-FR-M	FRD-S12-FR-M
Electric Opening	Clear	FRD-S6-E	FRD-R69-E	FRD-S8-E	FRD-S9-E	FRD-R912-E	FRD-S10-E	FRD-R115-E	FRD-S12-E
	Frosted	FRD-S6-FR-E	FRD-R69-FR-E	FRD-S8-FR-E	FRD-S9-FR-E	FRD-R912-FR-E	FRD-S10-FR-E	FRD-R115-FR-E	FRD-S12-FR-E

- ER - Electric Remote Operation with Rain Sensor
- ES - Electric Switch Operation

## Cross - Section



Cross section showing optional 300mm splayed upstand for warm roof installation



## Technical Data

Fire Ratings	
Typical Value	Polycarbonate Triple
BS 476: Part 3	AA
BS 476: Part 7	Class 1
1991 Building Regulations	TP (a)*
Impact Resistance	
Soft Body Impact	
EN1873	1200J
ACRM(M) - 2005	Class B Non-Fragile
Thermal Transmission	
Typical Value	W/m <sup>2</sup> k
Triple Glazed	1.3 **
Light Transmission-Triple Skin	
Clear	70%
Frosted	45%
Heat Reflective	40%
Sound Reduction	
Typical Value	
Triple Glazed	22dB

Information for 3mm thick glazing unless noted otherwise:

\* Class Zero (0) for Building Regulation purposes

\*\* Hot Box tested by an independent accredited organisation to EN ISO 12567-2 of October 14, 2005 in the vertical plane.

**Product Reference:** Keylite Flat Roof Dome (FRD)

**Type:** Dome.

**Size:** Specify from Keylite Product Literature.

**Shape:** Circular, square, rectangular.

**Frame:** Screwbolt - High security.

**Kerb:** PVCu Height 150mm.

**Material:** PVCu - White Self Finish

**Glazing Details:** Polycarbonate Triple Skin.

**Finish:** Clear, frosted.

**Other Requirements:** PVCu Opening Frame And Manual Spindle

**Fixing:** Please Consult Keylite Technical Department For Recommendations.

Flat Roof Dome Polycarbonate Triple Skin Rooflight, Complete With Splayed PVCu 300mm High Kerb, And PVCu Opening Frame And Manual Spindle,

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