

POLYCARBONATE ROOFLIGHTS

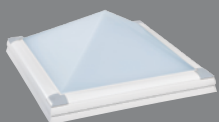
SUREDOMES (Fixed, Ventilated, ExiDome Access)
Automatic Opening Ventilators (Electric & Pneumatic)
SUREDOME Glazed & Glazed Circular



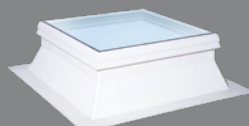
Surespan Automatic Opening Ventilators are all CE marked and certified to EN 12101-2.



DOME



PYRAMID



GLAZED



CIRCULAR



AOV



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ROOFLIGHTS AND AOV'S WITH SURESPAN ALUMINIUM UPSTANDS

Surespan Polycarbonate Rooflights come with a high grade aluminium upstand and triple layers as standard. Providing a U-value of 1.8 w/m²K. Further options are available.

Our range of AOV's also ensure a reliable and practical solution for smoke and heat extraction, the 160° degree opening vents are CE certified to EN 12101-2 standards.



SURESPAN REFURB KITS

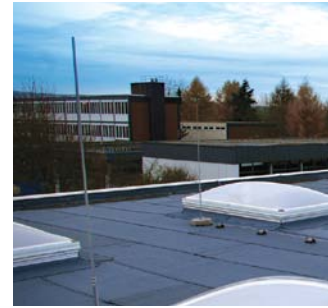


The kits provided allow SUREDOMES to be fitted to any existing upstand.

See pages 18-20.

Surespan SUREDOMES come with a wide range of options and features which enable them to meet a variety of individual specifications in sound insulation and efficiency. The Polycarbonate glazing comes with water vapour diffusion as standard and the thermally separated frame with a Multi-Chamber system allows optimum protection against water condensation as well as insulation.

Surespan also offer Refurb Kits which allow a new SUREDOME to be fitted to any existing upstand, perfect for larger buildings where Rooflights were previously installed. The kits also allow converting an older fixed rooflight, to ventilation.

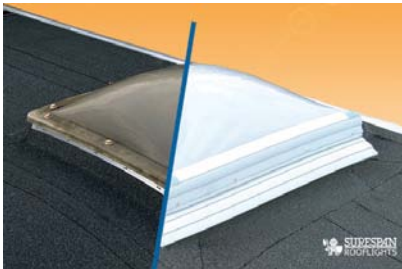


ExiDome Access - Easy exit and access onto the Roof.

Vent - Controlled via an electric, pneumatic or manual opener for air ventilation.

Fixed - Designed for a secure, fixed SUREDOME when ventilation or access is not needed.

SURESPAN REFURB KITS



The kits provided allow SUREDOMES to be fitted to any existing upstand.

See pages 18-20.

ALUMINIUM UPSTANDS

Surespan SUREDOMES come standard with a thermally broken aluminium upstand.

SUREDOMES



SUREDOME
ExiDome Access | Vent | Fixed
 Polycarbonate

Layers (Page 5)

Double layer
 Triple layer
 Quad layer
 Thermolayer
 Thermolayer OP
 Surespan Sunscreen
 Surespan Heatstop
 Surespan Darkdome

Upstands (Page 10)

ALUMINIUM
 150mm
 300mm
 500mm

PROFILED
 Corrugated 300mm
 Trapezoidal 300mm
 Trapezoidal Sheet
 Sandwich 300mm

PVC
 150mm
 300mm

GRP
 150mm
 300mm
 500mm



SUREDOME AOV
Electric | ExiDome Access
 Acrylic

Double layer
 Triple layer
 Quad layer
 Thermolayer
 Thermolayer OP
 Surespan Sunscreen
 Surespan Heatstop
 Surespan Darkdome

ALUMINIUM
 150mm
 300mm
 500mm

Rigid Steel
 300mm
 400mm
 500mm

GRP/Steel
 400mm
 500mm

GRP/Aluminium
 300mm

Aluminium Trapezoidal
 300mm

Steel/PVC
 300mm



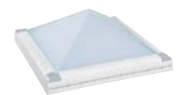
SUREDOME Glazed
ExiDome Access | Vent | Fixed
 Glass

Insulated Glazing (Double)
 Insulated Glazing (Triple)
 Sun Protection (Double)
 Sun Protection (Triple)
 Insulated Safety Glass (Double)
 Insulated Safety Glass (Triple)

ALUMINIUM
 150mm
 300mm
 500mm

GRP
 150mm
 300mm
 500mm

PROFILED
 Corrugated 300mm
 Trapezoidal 300mm
 Trapezoidal Sheet Sandwich
 300mm



SUREDOME Pyramid
ExiDome Access | Vent | Fixed
 Polycarbonate

Double layer
 Triple layer
 Quad layer
 Thermolayer
 Thermolayer OP
 Surespan Sunscreen
 Surespan Heatstop
 Surespan Darkdome

ALUMINIUM
 150mm
 300mm
 500mm

PVC
 150mm
 300mm

GRP
 150mm
 300mm
 500mm

PROFILED
 Corrugated 300mm
 Trapezoidal 300mm
 Trapezoidal Sheet
 Sandwich 300mm



SUREDOME Circular
Vent | Fixed
 Polycarbonate

Double layer
 Triple layer
 Quad layer
 Thermolayer
 Thermolayer OP
 Surespan Sunscreen
 Surespan Heatstop
 Surespan Darkdome

ALUMINIUM
 150mm
 300mm
 500mm

GRP (Circular)
 150mm
 300mm
 500mm



Ventilation (Page 9)

- Electric Basic**
300
- Electric**
300
- Electric**
500
- Pneumatic**
300mm
500mm
750mm
- Manual Spindle**
280mm
- Chain Opener**
300/500/Twin 400mm

ExiDome Access (Page 11) Sizes

- Electric 24v
- Single Gas Spring
- Tandem Gas Spring
- Manual with stay

Nominal sizes from
500 x 1000mm to
2000 x 2000mm

See pages 4-5



Electric AOV can be used for
ventilation via control station

Dual Purpose Ventilator and AOV

Roof access via Electric AOV
(Specify on order)

Nominal sizes from
1000 x 1000mm to
2000 x 2000mm

See page 6-8



- Electric Basic**
300
- Electric**
300
- Electric**
500
- Pneumatic**
300mm
500mm
750mm
- Manual Spindle**
280mm
- Chain Opener**
300/500/Twin 400mm

- Electric 24v
- Single Gas Spring
- Tandem Gas Spring
- Manual with stay

Nominal sizes from
500 x 1000mm to
1500 x 1500mm

See page 12-15

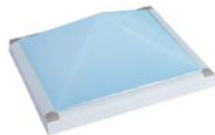


- Electric Basic**
300
- Electric**
300
- Electric**
500
- Pneumatic**
300mm
500mm
750mm
- Manual Spindle**
280mm
- Chain Opener**
300/500/Twin 400mm

- Electric 24v
- Single Gas Spring
- Tandem Gas Spring
- Manual with stay

Square nominal sizes from
600 x 600mm up to
2000 x 2000mm

See page 16-17



- Electric Basic**
300
- Electric**
300
- Electric**
500
- Pneumatic**
300mm
500mm
750mm
- Manual Spindle**
280mm

Not Available

Nominal sizes from 600mm
up to 2000mm diameter

See page 16-17



The SUREDOME is the most versatile and popular product. It's the perfect all rounder for natural lighting, daily air ventilation and roof access. Like all of our Rooflights, the SUREDOME is available with a wide range of layer options to ensure a specification that suits requirements with U-values as low as 0.61 W/m²K.

FIXED SUREDOME



VENTILATED SUREDOME



EXIDOME ACCESS HATCH

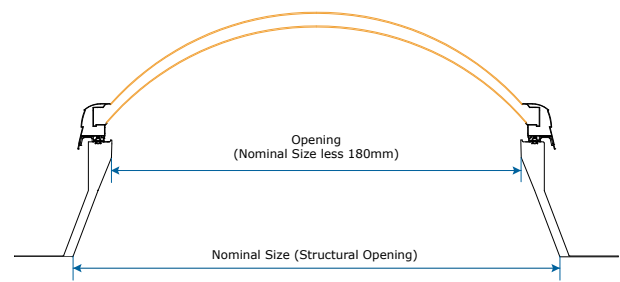


Light Transmission (m ²)		Ventilation Area (m ²)				Opening Angle for Access				
Nominal Size (mm)	Light Transmission Area (m ²)	Manual 280mm Opening	Electric 300mm Opening	Electric 500mm Opening	Pneumatic 750mm Opening	Manual	1 Pneumatic Spring	2 Pneumatic Springs	24v Electric	Nominal Size (mm)
						Opening Angle			Long/Short Side	
500 x 1000	0.26	0.27	0.27	-	-	-	-	-	-	500 x 1000
500 x 1500	0.42	0.42	0.42	-	-	-	-	-	-	500 x 1500
600 x 600	0.18	0.18	0.18	-	-	-	-	-	-	600 x 600
600 x 900	0.3	0.30	0.30	-	-	80°	90°	-	-	600 x 900
600 x 1200	0.43	0.40	0.43	-	-	80°	90°	-	-	600 x 1200
700 x 1400	0.63	0.49	0.52	0.63	-	80°	90°	-	-	700 x 1400
800 x 800	0.38	0.35	0.37	0.38	-	80°	90°	-	-	800 x 800
800 x 1000	0.51	0.40	0.43	0.51	-	80°	90°	-	-	800 x 1000
900 x 900	0.52	0.40	0.43	0.52	0.52	80°	90°	-	-	900 x 900
900 x 1200	0.73	0.49	0.52	0.73	0.73	80°	90°	-	-	900 x 1200
1000 x 1000	0.67	0.46	0.49	0.67	0.67	80°	90°	-	98°/98°	1000 x 1000
1000 x 1500	1.08	0.60	0.64	1.05	1.08	-	90°	-	98°/57°	1000 x 1500
1000 x 2000	1.49	-	0.79	1.30	1.49	-	-	36°	98°/41°	1000 x 2000
1000 x 2400	1.82	-	0.91	1.50	1.82	-	-	28°	98°/34°	1000 x 2400
1000 x 2500	1.9	-	0.94	1.55	1.90	-	-	26°	98°/32°	1000 x 2500
1000 x 3000	2.31	-	1.09	1.80	2.31	-	-	21°	98°/26°	1000 x 3000
1100 x 1400	1.12	0.60	0.64	1.05	1.12	-	90°	-	86°/63°	1100 x 1400
1200 x 1200	1.04	0.57	0.61	1.02	1.04	-	90°	-	76°/76°	1200 x 1200
1200 x 1500	1.35	0.66	0.71	1.15	1.35	-	90°	-	76°/57°	1200 x 1500
1200 x 1800	1.65	-	0.79	1.30	1.65	-	-	42°	76°/46°	1200 x 1800
1200 x 2400	2.26	-	0.97	1.60	2.26	-	-	28°	76°/34°	1200 x 2400
1200 x 2500	2.37	-	1.00	1.65	2.37	-	-	26°	76°/32°	1200 x 2500
1200 x 2700	2.57	-	1.06	1.75	2.57	-	-	24°	76°/30°	1200 x 2700
1200 x 3000	2.88	-	1.15	1.90	2.88	-	-	21°	76°/26°	1200 x 3000
1250 x 1250	1.14	0.60	0.94	1.07	1.14	-	90°	-	72°/72°	1250 x 1250
1250 x 2500	2.48	-	1.13	1.69	2.48	-	-	26°	72°/32°	1250 x 2500
1350 x 2300	2.48	-	0.98	1.63	2.47	-	-	30°	65°/35°	1350 x 2300
1500 x 1500	1.74	0.74	0.79	1.31	1.74	-	-	57°	57°/57°	1500 x 1500
1500 x 1800	2.14	-	0.88	1.46	2.14	-	-	42°	57°/46°	1500 x 1800
1500 x 2100	2.53	-	0.97	1.61	2.43	-	-	33°	57°/39°	1500 x 2100
1500 x 2400	2.93	-	1.06	1.76	2.66	-	-	28°	57°/34°	1500 x 2400
1500 x 2500	3.06	-	1.09	1.81	2.73	-	-	26°	57°/32°	1500 x 2500
1500 x 2700	3.33	-	1.15	1.91	2.88	-	-	24°	57°/30°	1500 x 2700
1500 x 3000	3.72	-	1.24	2.07	3.11	-	-	21°	57°/26°	1500 x 3000
1700 x 3000	4.29	-	1.30	2.16	3.26	-	-	21°	50°/26°	1700 x 3000
1800 x 1800	2.62	-	0.97	1.61	2.43	-	-	42°	46°/46°	1800 x 1800
1800 x 2400	3.6	-	1.15	1.91	2.88	-	-	28°	46°/34°	1800 x 2400
1800 x 2500	3.76	-	1.18	1.96	2.96	-	-	26°	46°/32°	1800 x 2500
1800 x 2700	4.08	-	1.24	2.06	3.11	-	-	24°	46°/30°	1800 x 2700
2000 x 2000	3.31	-	1.09	1.81	2.73	-	-	36°	26°/26°	2000 x 2000

EXAMPLE SPECIFICATION

1. SUREDOME Ventilation
2. 1000 x 1500mm
3. Electric 300mm
4. Aluminium 300mm Upstand

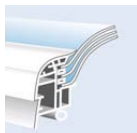
Providing a ventilation area of 0.64m²



RECOMMENDATIONS

Triple Polycarbonate Layer

Surespan stock triple polycarbonate layers as standard with a U-value of 1.8 W/m²K and a decibel rating of 22dB.



Available in:

Clear - Clear - Clear

Light Transmission = 77%

Solar Transmittance = 64%

U-value = 1.8 W/m²K

Opal - Clear - Clear

Light Transmission = 44%

Solar Transmittance = 41%

U-value = 1.8 W/m²K



PVC Uprand

U-value 1.1 W/m²K. Available in different colours on request.

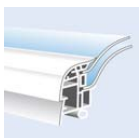
Available in 150mm, 300mm or 500mm.



LAYERS

Also Available:

Double Layer



U-value of 2.7 W/m²K

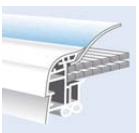
Quad Layer



U-value of 1.5 W/m²K

Special Designs:

Thermolayer



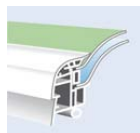
U-value of 1.0 W/m²K

Thermolayer OP



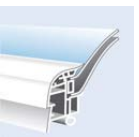
U-value of 0.61 W/m²K

Heatstop



Decreases infra-red heat

Sunscreen



Reflects sunlight on one side

Darkdome



Prevents light transmission

UPSTANDS

Available:

Aluminium



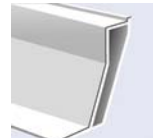
U-value of 0.8 W/m²K

PVC Uprand



U-value of 1.1 W/m²K

GRP Uprand



U-value of 0.8 W/m²K

GRP Ventilated



U-value of 0.8 W/m²K

Corrugate Designs:

Profiled GRP



U-value of 0.9 W/m²K

Trapezoid

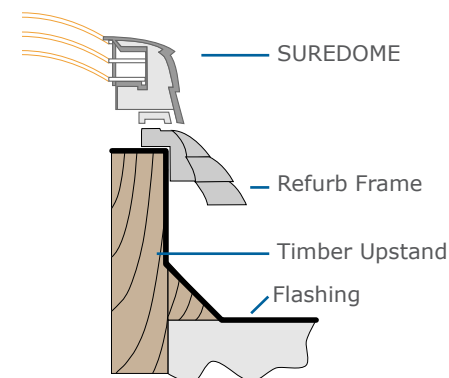


U-value of 0.9 W/m²K

Please note: Corrugated upstands have to be made to measure, supply details of corrugated roof structure when ordering.

Timber Upstand

Install your own Timber upstand and we'll provide a refurb frame and a SUREDOME to be easily fitted without any work on the roof structure.



Layer Order	Number of Layers	Light Transmittance in %	Solar Transmittance in %	U-value W/m ² K	Decibel Rating
Clear/Clear	2	84	74	2.7	20 dB
Opal/Opal	2	50	49	2.7	20 dB
Clear/Clear/Clear	3	77	64	1.8	22 dB
Opal/Clear/Clear	3	44	41	1.8	22 dB
Opal/Clear/Clear/Opal	4	42	37	1.5	22 dB
Clear/Clear/Clear/Clear	4	68	47	1.5	22 dB

Please Note: The options above are made to order and may take up to 6 weeks to complete

SUREDOME 160° AOV

*Safe, Reliable Smoke Extraction
And Daily Ventilation*

EN 12101-2



SEE OUR AOV IN ACTION
VIDEO



160° ELECTRIC AOV

The Surespan electric AOV (Automatic Opening Ventilator) offers exemplary functional safety and reliability approved to EN 12101-2.

- Control centre with 72 hour emergency battery back up.
- Automatic opening and closing of multiple units.
- Ventilation via electrically controlled opening mechanism.
- The opener can be fitted to one side to provide access and escape.
- We also offer a range of pneumatic mechanisms if required.



SIZES			AIRFLOW (m ²) Declared Performance		Structural Opening	Clear Air Flow Size*
Nominal Size (mm)	Light Transmission Area (m ²)	Ventilation Area 300mm Lift	With Wind Deflector	Without Wind Deflector		
1000 x 1000	0.67	0.53	0.71	0.62	1.00	0.79
1000 x 1500	1.08	0.68	1.07	0.86	1.50	1.24
1000 x 2000	1.49	0.83	1.42	1.14	2.00	1.68
1000 x 2400	1.82	0.95	1.70	1.37	2.40	2.04
1000 x 2500	1.90	0.98	1.78	1.43	2.50	2.13
1200 x 1200	1.04	0.65	1.02	0.82	1.44	1.19
1200 x 1500	1.35	0.74	1.28	0.94	1.80	1.52
1200 x 1800	1.65	0.83	1.53	1.12	2.16	1.84
1200 x 2400	2.26	1.01	2.04	1.50	2.88	2.5
1200 x 2500	2.37	1.04	2.13	1.56	3.00	2.61
1250 x 1250	1.14	0.94	1.11	0.89	1.56	1.3
1250 x 2500	2.48	1.13	2.22	1.59	3.13	2.72
1500 x 1500	1.74	0.83	1.60	1.28	2.25	1.93
1500 x 1800	2.14	0.92	1.92	1.54	2.70	2.35
1500 x 2100	2.53	1.01	2.24	1.80	3.15	2.77
1500 x 2400	2.93	1.10	2.56	1.87	3.60	3.18
1500 x 2500	3.06	1.13	2.66	1.95	3.75	3.32

* Clear air flow size is the total airflow excluding the mechanism.

ALL SIZES TESTED & CERTIFIED TO EN 12101-2

- Rooflights open up to **160°** in less than **60 seconds**.
- 24v DC electric actuator.
- Snow load from 500-1500 KN/m (Depending on size).
- Tested at -5°C ambient.
- Reliability tests opened 1,000/10,000 times (Dual purpose ventilator).
- Resistance to heat class B300-E - Operates up to 300°C.
- Wind load class - wind load resistance between 1500-2500 KN/m.



Dual Purpose
 Our AOV's can be used for daily ventilation as well as smoke extraction.



SPECIFICATION

Performance Characteristics	Tested and certified to EN 12101-2.
Material	Acrylic glazing with a fire classification of B300-E. U-values ranging from 3.50 W/m ² K - 0.61 W/m ² K.
Upstand	300mm PVC Steel reinforced upstand
Wind Deflectors	Aluminium wind deflectors for improved airflow.
Actuator	24v DC Actuator opens to up to 160°. Safety hook locks AOV in place. Actuator can be moved to the side to allow access and escape.

Ventilation Area for AOV's (Dual Purpose) in m² (300mm Opener)

> 0.50 - 0.74m²

1000 x 1000mm (0.53)
 1200 x 1200mm (0.65)
 1000 x 1500mm (0.68)
 1200 x 1500mm (0.74)

> 0.75-0.94m²

1000 x 2000mm (0.83)
 1200 x 1800mm (0.83)
 1500 x 1500mm (0.83)
 1500 x 1800mm (0.92)
 1250 x 1250mm (0.94)

> 0.95-1.04m²

1000 x 2400mm (0.95)
 1000 x 2500mm (0.98)
 1200 x 2400mm (1.01)
 1500 x 2100mm (1.01)
 1200 x 2500mm (1.04)

> 1.05-1.15m²

1500 x 2400mm (1.10)
 1250 x 2500mm (1.13)
 1500 x 2500mm (1.13)

ADDITIONAL EXTRAS



CONTROL CENTRE

- Electrical 24v activation
- Integrated 72 hour battery back up
- Can be linked to fire alarm system
- Smoke detectors
- Wind and rain sensors available

REF: AOVCC



EMERGENCY PUSH BUTTON

Surface mounted, standard colour is green, other colours available upon request.

REF: AOVPB



KEY SWITCH

Alternative operation with cylinder lock, ideal for ventilation.

REF: AOVKS



OPEN/CLOSE BUTTON

REF: AOVOC



Additional wind deflectors for increased airflow.



Surespan Security Mechanism - Automatic Security Latch locks AOV in place.

SUREDOMES aren't just designed for natural lighting. With a choice of openers you can find the perfect solution for ventilation in order to create a comfortable and natural working environment. While our ExiDome openers allow for easy entry and exit onto the roof with up to 90 degree opening.

OPENER OPTIONS



ELECTRIC BASIC 300mm

This opener has a lift height of 300mm, the high quality plastic housing ensures maintenance free operation with thermal overload protection. 230v.



PNEUMATIC OPENER 300, 500 750mm

The pneumatic openers have a lift height of 300, 500 or 750mm, the high quality aluminium housing ensures maintenance free operation. Automatic, mechanical locking in limit position with optional manual unlocking. Single or tandem operation available.



ELECTRIC 300mm

This opener has a lift height of 300mm, the high quality aluminium housing ensures maintenance free operation with thermal overload protection and electronic overload protection. 230v.



MANUAL SPINDLE 280mm

This opener has a lift height of 280mm, the spindle is galvanised steel & brass ensuring maintenance free operation. Can be adjusted to any height up to 280mm.

Required Accessories

Hand Crank Rod (1700mm)
Extension Rod



ELECTRIC 500mm

This opener has a lift height of 500mm, the high quality metal housing ensures maintenance free operation with thermal overload protection. 230v.



ELECTRIC CHAIN OPENER

Available as 300, 500 or twin 400mm. This elegant linear chain opener is housed in a high grade aluminium casing. The cable connection can be integrated into the upstand on request. The chain opener is not suitable in areas where moisture regularly occurs. For best results combine with the wind and rain detector. (REF: WRD)

OPENER ACCESSORIES



SOLAR VENTILATION KIT

Efficient aeration and ventilation using solar energy. The kit consists of a solar panel, 24v opener, and a ventilation control centre.

REF: SOLAR



VENTILATION CONTROL CENTRE

For controlling a group of ventilators

REF: VCC



REMOTE CONTROL

For easy, convenient operation of Suredomes via radio remote control. Can only be combined with an electric opener.

REF: RC



WIND/RAIN DETECTOR

Detects the strength of the wind and rain and automatically closes the rooflight accordingly.

REF: WRD



ELECTRIC PUSH BUTTON

Open/Close buttons suitable for ventilation.

REF: OPNB

STANDARD ALUMINIUM UPSTANDS

All Surespan SUREDOMES come standard with bespoke aluminium upstands. These upstands are available in sizes: **150mm, 300mm and 500mm**

All Surespan Aluminium Upstands are available with thermally broken extruded sections, offering clients excellent energy conservation properties and substantially reducing internal condensation or frost formation.

Please note: Upstands can be provided and delivered separately to the SUREDOMES, enabling upstand installation during early stages of development. This can prevent accidental damage to the Polycarbonate Rooflights.



UPSTANDS (ALSO AVAILABLE)



PVC UPSTAND 150, 300mm

Surespan 150 and 300mm PVC upstands are thermally insulated to U-value 1.1 W/m²K with water drip edge, ensuring that no rain water can run over the edge and into the building.

Suitable for SUREDOME and SUREDOME Pyramid.

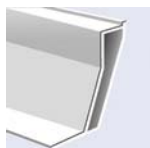


CORRUGATED PROFILE 300mm

Available in GRP (1.0 W/m²K) or Aluminium (0.9 W/m²K).

Please provide details of the corrugation when ordering as these upstands are made to measure.

Suitable for SUREDOME, Pyramid and Glazed.



GRP UPSTAND 150, 300, 500mm

Surespan GRP upstands are available in 150, 300 or 500mm and insulated to 0.8 W/m²K.

Suitable for SUREDOME, Pyramid, Glazed and Circular



ALUMINIUM TRAPEZOIDAL CORRUGATE 300mm

Our aluminium trapezoidal corrugated upstands have a U-value of 0.9 W/m²K.

Please provide details of the corrugation when ordering as these upstands are made to measure.

Suitable for SUREDOME, Pyramid and Glazed.



GRP/ALUMINIUM VENTILATED 500mm

The ventilated upstand is thermally insulated to U-value 0.8 W/m²K with electrically controlled slats. Air flow rate 150 m³/h with a max speed of 2600rpm and a sound reduction level of 64 dB(A).

Suitable for SUREDOME, Pyramid and Glazed



ALUMINIUM TRAPEZOIDAL SHEET SANDWICH 300mm

Our aluminium trapezoidal corrugated sheet sandwich upstand have a U-value (0.9 W/m²K).

Please provide details of the corrugation when ordering as these upstands are made to measure.

Suitable for SUREDOME, Pyramid and Glazed.

AOV UPSTANDS (ALSO AVAILABLE)



RIGID STEEL 300, 400, 500mm

Constructed from steel, with factory adjusted thermal insulation as optional. U-value 1.1 W/m²K.



GRP/ALUMINIUM CORRUGATE 300mm

The 300mm corrugated upstand is thermally insulated to U-value 0.9 W/m²K with water drip edge ensuring that no rain water can run over the edge into the building. Available in aluminium or GRP.

Please provide details of the corrugation when ordering as these upstands are made to measure.



STEEL/PVC 300mm

The 300mm high upstand is thermally insulated to U-value 0.9 W/m²K. The inside is constructed out of steel and the outside is hard PVC.



ALUMINIUM TRAPEZOIDAL UPSTAND 300mm

The 300mm corrugated upstand is thermally insulated to U-value 0.9 W/m²K. With water drip edge ensuring that no rain water can run over the edge into the building. Also available in sheet sandwich.

Please provide details of the corrugation when ordering as these upstands are made to measure.



GRP/STEEL 400 or 500mm

Available in 400 or 500mm, these are thermally insulated to U-value 1.0 W/m²K. The inside is constructed out of GRP while the outside is rigid steel.

'ALSO AVAILABLE' refers to non-standard products and will therefore require up to 6 weeks to fulfill.

EXIDOME ACCESS HATCH OPENERS

The ExiDome access hatch is equipped with two electric folding arm motors (above nominal size of 1000 x 1000mm) which enable the SUREDOME to open up to 90 degrees allowing easy exit. Manual opener systems (with gas assisted spring or with stay) are available up to 1000 x 1000mm. Surespan also manufacture aluminium exit hatches available in bespoke sizes.



ELECTRIC 24v

- 24v Electric Openers
- Control Centre and push button
- Easy access and exit at all sizes



GAS SPRINGS (SINGLE OR TANDEM)

- Manual with gas assisted opening
- Optional integrated fitting for ladders
- Available up to 1000 x 1000mm



SURESPAN ALUMINIUM SRH43

- Manufactured in aluminium
- Gas assisted spring
- Bespoke sizes available
- Insulated to 0.43 W/m²k
- Thermally Broken

ACCESSORIES



Shade Protector

The shade protector removes glare from sunlight and reduces heat. Operated by wall switch or wireless remote.

REF: SPR



Black-Out Protector

Provides a complete black out of light. The textile is UV and flame resistant. Operation via wall switch or remote control.

REF: BPR



Fall Through Protection

Protects against falling through an open or closed rooflight. The grid is manufactured from galvanised steel and can be supplied in any standard RAL colour.

REF: FTP



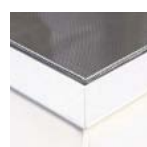
Intruder & Fall Through Protection

Protects against falling through an open or closed rooflight as well as unauthorised access with lockable latch. The grid is manufactured from galvanised steel and can be supplied in any standard RAL colour. REF: IFTP



Attachment Point

To connect ManSafe protection equipment. Suitable for all sizes above 1000 x 1000mm. REF: ATTP



Insect Mesh and Seal

Fine mesh fabric edged in a white aluminium frame with a brush strip to seal around the operating mechanism. Protects against the ingress of dirt, insects or leaves through a ventilated rooflight. Can be easily removed for cleaning. REF: IMS

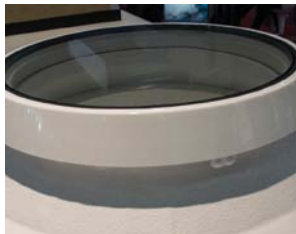
SUREDOME Glazed

Visibly Clear for natural light, ventilation and access.

The high-end solution for natural lighting and ventilation. These 30mm sealed double glazed units comprise of a 6mm protection film coated outer pane with a 16mm argon filled cavity and two 8mm break through resistant inner panes. All SUREDOMES are supplied with an aluminium upstand as standard.



GLAZED SUREDOMES



Fixed Glazed

Provide clear views into the sky for maximum light transmission.



Ventilation

Manual, Electric and chain openers are available. 280mm, 300mm and 500mm.



ExiDome Access

Electric 24v motors for easy access onto the roof. Gas assist also available.



Aluminium Upstand

Surespan Glazed SUREDOMES are sold with a thermally broken aluminium upstand as standard. This provides greater energy efficiency.



Variety of Accessories

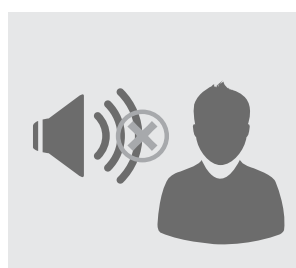
Surespan offer a range of options from electrical and manual opening systems, electrically controlled shade or black out blinds, and burglary protection. See page 11.



Energy Efficient

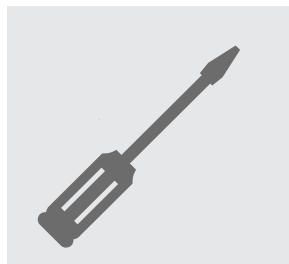
Thermal Insulation

With U-values as low as 0.7 W/m²K.



Sound Insulation

Our sealed glazed units have a decibel rating of 35dB.



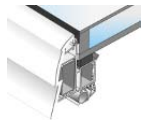
Easy Assembly

With factory pre-assembled hinges, installation can be as simple as placing the Glazed frame on top of the pre-installed upstand and fixing in place.

GLASS LAYERS

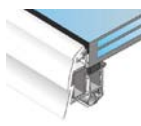
The SUREDOME Glazed units comprise of a double or triple pane option. These 30mm sealed double glazed units comprise of a 6mm protection film coated outer pane with a 16mm argon filled cavity and two 8mm break through resistant inner panes.

INSULATED GLAZING (2 LAYERS)



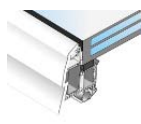
This option provides an outer layer of toughened glass with a cover frame to ensure no water is left behind and an inside layer of laminated safety glass. U-value 1.1 W/m²K

SUN PROTECTION (2 OR 3 LAYERS)



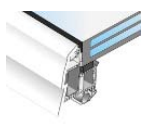
This option has an outside layer of Solar Control Glass and 1 or 2 inside layers of Laminated Safety Glass. U-value 1.1 W/m²K or 0.7 W/m²K

INSULATED GLAZING (3 LAYERS)



This option provides an outer layer of toughened glass and two inside layers of laminated safety glass. The aluminium profile can be powder coated to virtually any RAL colour. U-value 0.7 W/m²K.

SAFETY GLASS (2 OR 3 LAYERS)



This option has an outside layer of Single-pane safety glass and 1 or 2 inside layers of laminated safety glass. U-value 1.1 W/m²K or 0.7 W/m²K



ALUMINIUM UPSTAND

Surespan offer a thermally broken aluminium upstand on all SUREDOMES as standard.

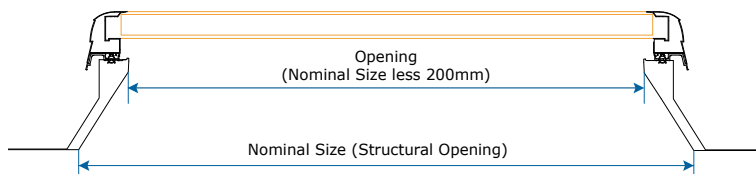
Available in 150mm, 300mm or 500mm.

The options above are available in the following configurations:

GLASS VARIATIONS			GLASS PROPERTIES		
Glazed Variations	Number of Layers	U-value W/m ² K	Light-passage T65 in %	Total solar energy output G in %	Sound Insulation (dB)
Thermal Insulation	2	1.1	76	53	35
Sun Protection	2	1.1	69	37	35
Toughened Thermal Insulation	2	1.1	76	53	35
Toughened Sun Protection	2	1.1	69	37	35
Thermal Insulation	3	0.7	69	46	35
Sun Protection	3	0.7	61	34	35
Toughened Thermal Insulation	3	0.7	69	46	35
Toughened Sun Protection	3	0.7	61	34	35

Light Passage: Visible light transmitted through layers (i.e. 70% LT means 30% of light is kept out of the building)

G-value: Solar transmittance through layers (higher G-values offer more heat from the sun)



EXAMPLE SPECIFICATION

1. SUREDOME Glazed
2. 900 x 900mm
3. Chain Opener 300mm
4. Aluminium 300mm Upstand

Providing a ventilation area of 0.43m²

SIZES & VARIANTS

FIXED GLAZED



VENTILATED GLAZED



EXIDOME ACCESS HATCH



Light Transmission (m ²)		Ventilation Area (m ²)			Opening Angle for Access			
Nominal Size (mm)	Light Transmission Area (m ²)	Electric 280mm Opening	Electric 300mm Opening	Electric 500mm Opening	Manual	1 Pneumatic Spring	2 Pneumatic Springs	24v Electric
					Opening Angle			Long Side/ Short Side
500 x 1000	0.26	0.26	-	-	-	-	-	-
500 x 1500	0.42	0.42	-	-	-	-	-	-
600 x 600	0.18	0.18	0.18	-	-	-	-	-
600 x 900	0.30	0.30	0.30	-	80° ¹	90° ¹	-	-
600 x 1200	0.43	0.40	0.43	-	80° ¹	90° ¹	-	-
700 x 1400	0.63	0.49	0.52	0.63	80°	90°	-	-
800 x 800	0.38	0.35	0.37	0.39	80°	90°	-	-
800 x 1000	0.51	0.40	0.43	0.51	80°	90°	-	-
900 x 900	0.52	0.40	0.43	0.52	80°	90°	-	-
900 x 1200	0.73	-	0.52	0.73	80°	90°	-	-
1000 x 1000	0.67	0.46	0.49	0.67	-	90°	-	83°/83°
1000 x 1500	1.08	-	0.64	1.07	-	90°	-	83°/66°
1100 x 1400	1.12	-	0.64	1.07	-	90°	-	83°/83°
1200 x 1200	1.04	-	0.61	1.02	-	90°	-	83°/83°
1200 x 1500	1.35	-	0.70	1.17	-	90°	-	83°/83°
1250 x 1250	1.14	-	0.64	1.07	-	90°	-	83°/83°
1500 x 1500	1.74	-	0.79	1.32	-	-	57°	83°/83°

¹⁾ Opener on shortside

SUREDOME CIRCULAR GLAZED

FIXED SUREDOME



VENTILATED SUREDOME



Light Transmission (m ²)		Ventilation Area (m ²)		
Nominal Size (mm)	Light Transmission Area (m ²)	Manual 280mm Opening	Electric 300mm Opening	Electric 500mm Opening
600	0.13	0.13	0.13	-
900	0.38	0.31	0.33	-
1000	0.5	0.35	0.38	-
1200	0.79	0.44	0.47	0.79

ALUMINIUM UPSTAND

Surespan offer a thermally broken aluminium upstand on all SUREDOMES as standard.

Available in 150mm, 300mm or 500mm.

SUREDOME Circular

Beautifully designed for natural light and ventilation

SUREDOME PYRAMID & CIRCULAR

Identical to the domed range, this unique pyramid shape opens up new design opportunities while still offering a wide choice of layers and layer variants, upstands and openers.



FIXED PYRAMID		VENTILATED PYRAMID				EXIDOME ACCESS HATCH			
Light Transmission (m ²)		Ventilation Area (m ²)				Opening Angle for Access			
Nominal Size (mm)	Light Transmission Area (m ²)	Manual 280mm Opening	Electric 300mm Opening	Electric 500mm Opening	Pneumatic 750mm Opening	Manual With Stay	1 Pneumatic Spring	2 Pneumatic Springs	Electrical 24V
600 x 600	0.18	0.18	0.18	-	-	-	-	-	-
800 x 800	0.38	0.37	0.37	0.38	-	80°	90°	-	-
900 x 900	0.52	0.43	0.43	0.52	0.52	80°	90°	-	-
1000 x 1000	0.67	0.49	0.49	0.67	0.67	80°	90°	-	98°/98°
1200 x 1200	1.04	0.61	0.61	1.02	1.04	-	90°	-	76°/76°
1500 x 1500	1.74	0.79	0.79	1.31	1.74	-	-	57°	57°/57°
1800 x 1800	2.62	0.97	0.97	1.61	2.43	-	-	42°	46°/46°
2000 x 2000	3.31	1.09	1.09	1.81	2.73	-	-	26°	26°/26°

SUREDOME CIRCULAR

With its round shape, the SUREDOME circular provides an alternative to our standard Rooflights. The smooth sealant between the frame and polycarbonate layers ensure a uniform design without the need for external fixings or screws.



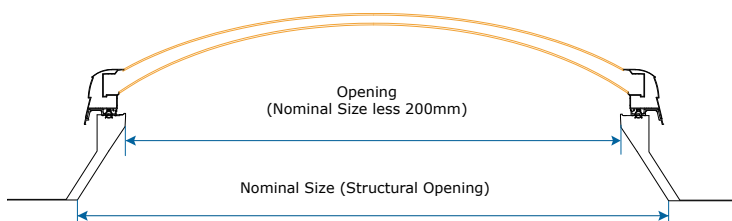
FIXED CIRCULAR



VENTILATED CIRCULAR



Light Transmission (m ²)		Ventilation Area (m ²)				
Size (mm)	Light Transmission Area (m ²)	Manual 280mm Opening	Electric 300mm Opening	Electric Comfort 500mm Opening	Pneumatic 750mm Opening	Locking
600	0.13	0.13	0.13	-	-	Solo
900	0.38	0.31	0.33	0.38	-	Solo
1000	0.5	0.35	0.38	0.50	0.50	Solo
1200	0.79	0.44	0.47	0.79	0.79	Solo
1500	1.33	-	0.61	1.02	1.02	Tandem
1800	2.01	-	0.75	1.26	1.26	Tandem
2000	2.54	-	0.85	1.41	1.41	Tandem



EXAMPLE SPECIFICATION

1. SUREDOME Circular
2. 900mm Diameter
3. Electric Opener 300mm
4. GRP 300mm Upstand

Providing a ventilation area of 0.33m²

REPLACE ROOFLIGHTS UTILISING EXISTING UPSTAND



MASSIVE COST SAVINGS
NO NEED TO CHANGE UPSTANDS

- Easily replace old rooflights using existing upstand
- Requires no changes to roof structure.
- Adapt to any existing upstand regardless of manufacturer.
- U-Values as low as 0.83 W/m²K. (Subject to upstand)
- Improve buildings energy efficiency in line with Part L 2010.
- Hidden fixings for high security
- Available in select sizes from 600 x 600mm to 2000 x 2000mm
- Convert fixed rooflights to ventilation with the installation of an opener.



REFURB STEPS



REFURB FRAME

- Fits on top of existing upstand
- Sealing tape provides a weatherproof seal
- Factory prepared holes and hinges for opening hatches



EXISTING UPSTAND



SUREDOME LID

- Easy installation onto refurb frame
- Fixing holes and screws are supplied



REFURBED ROOFLIGHT



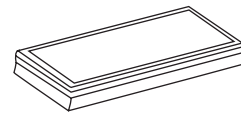
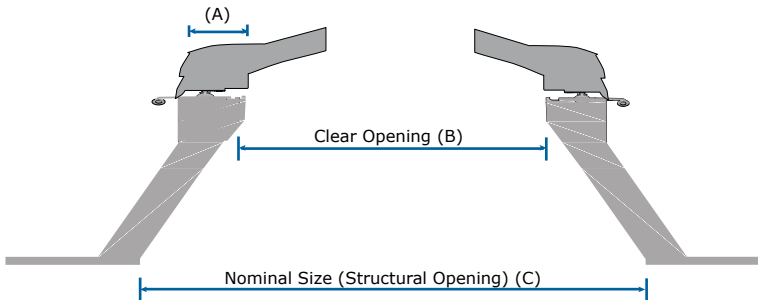
Scan and complete the attached PDF to send us your details or fill in the form on page 20

1. Manufacturer of existing rooflight

- Surespan
- Other Manufacturer
- Unknown Manufacturer

Please send us photographs of the existing upstand and dimensions to sales@surespancovers.com

2. Dimensions we require:



Dimension A:

Dimension B: x

Dimension C: x

3. Additional Information

- Fixed Rooflight Openable Rooflight Convert Fixed to openable

Please provide information below:

Project:

Location:

Company:

Name:

Address:

E-mail:

REGULATIONS

Surespan appreciate the wide technicalities of designing buildings around these, and many more regulations. Therefore, the following section will provide a quick reference guide of the important factors that should be taken into account when choosing your Rooflights.

U-VALUES AND ENERGY EFFICIENCY

New Build (dwelling): 2.00 W/m²K
 Existing Build (dwelling): 1.6 W/m²K
 New Build (non-dwelling): 2.20 W/m²K
 Existing Build (non-dwelling): 1.8 W/m²K

SURESPAN RECOMMENDS:

SUREDOME Triple Layer
 SUREDOME Quad Layer
 SUREDOME Triple Layer
 SUREDOME Triple Layer

Note: Our SUREDOME AOV's use the same layer design as our standard Domes therefore any layer option we offer can meet the required 3.50 W/m²K recommendation according to Part L 2010.

AREA OF ROOFLIGHTS & ROOF WINDOWS

As a general guide, if the area of the glazing and/or rooflight is less than 20 per cent of the total floor area, some parts of the building or dwelling may experience low levels of light therefore increasing costs of electricity.

FIRE RATING

Approved document B classifies Polycarbonate Rooflights as TP(b) material therefore the maximum rooflight area is 5m², there is also a maximum 50% coverage of the floor area of the space in which the ceiling is located and a minimum separation distance of 3m between Rooflights. Our Polycarbonate Rooflights have a distinct advantage over other materials in terms of fire safety due to the fact that in a fire, with temperatures over 120°C, the rooflight will melt. This is an intentional effect as it allows extra ventilation for smoke and heat for SUREDOMES which aren't designed to serve as a smoke ventilator.

REDUCING ENERGY COSTS WITH SUREDOMES

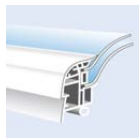
- Without SUREDOMES a 1000m², 8m ceiling height building can consume **57,200 kWh per year**.
- SUREDOMES can reduce this energy costs by 30% resulting in a decreased consumption of **17,160 kWh per year**.



With the estimated supply and installation for a 100m² roof, the return on investment is approximately 6 years. The life expectancy of a Dome is around 25 years, this could mean you save in excess of 70% over the course of its usable life.

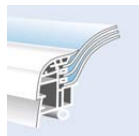
REDUCING HEATING COSTS

Savings are illustrated based on the fuel costs required to heat a 1000m², 8m ceiling height building.



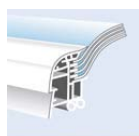
SUREDOME
 Double Layer
U-value 2.7 W/m²K

Fuel Oil Costs
 = 100%



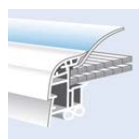
SUREDOME
 Triple Layer
U-value 1.8 W/m²K

Fuel Oil Saving
 +29.05%
 Compared with Double layer



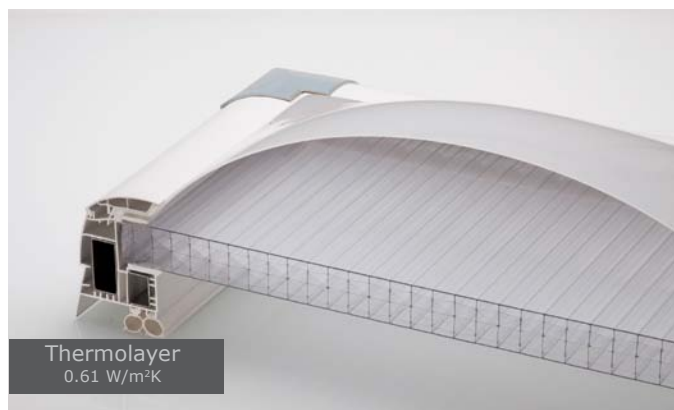
SUREDOME
 Quad Layer
U-value 1.5 W/m²K

Fuel Oil Saving
 +38.72%
 Compared with Double layer



SUREDOME
 Thermolayer
U-value 0.61 W/m²K

Fuel Oil Saving
 +60.33%
 Compared with Double layer



Thermolayer
 0.61 W/m²K

SUREDOMES have the ability to cut your energy costs by up to 70% - along with fuel cost reductions and overall lower CO₂ emissions.

In addition, further investment in Triple, Quad or Thermolayer Domes will quickly pay for itself and ultimately lead to greater savings.



www.surespanrooflights.com



www.surespancovers.com



FM23434
BS EN ISO 9001:2001


In the interest of continued improvement, Surespan reserve the right to modify any product or specification without prior notice. Surespan Ltd hold a number of British and International patents.

It is company policy to defend our intellectual property rights.



EN12101-2
Certified



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