

Dadome Rooflights



CI/SfB June 2010
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Creating
better quality
environments
with natural
light



A range of rooflights specially designed for use with Icopal flat roof waterproofing systems.

Dadome Rooflights

The Natural Choice



It is now accepted that natural light in buildings helps create better quality environments for people, improving their concentration and general feeling of well-being, leading to better productivity.

Specifying and installing a Dadome Rooflight helps ensure optimum and uniform natural light in rooms, guaranteeing both health and economic benefits.



Dadome Rooflights

Benefits of Natural Light

Natural light doesn't only create a more natural environment, it also has other benefits including...

■ Environmental and Economic Benefits

Artificial light can account for 20% of an industrial buildings CO₂ emissions. Estimates show that a typical industrial building with a roof area of approximately 10,000m² which incorporates rooflights can save in excess of 24 Tonnes of CO₂ each year. This not only substantially reduces its carbon emissions, but also gives impressive energy savings by reducing the need for artificial light during daylight hours.

■ Health Benefits

Natural daylight is vital to many aspects of healthy living and has a profound affect on stimulation and regulation of the human body.

The eye turns daylight into electrical impulses triggering the release of Serotonin, a chemical essential for emotional well-being. Ultraviolet light from the sun creates Vitamin D through our skin, which then produces calcium for healthier teeth and bones.

Lack of daylight can lead to Seasonal Affective Disorder, a clinically diagnosed condition in which the lack of sunlight in winter makes people feel ill. Rooflights help bring more natural light into the building when the sun does appear.

In hospitals studies have proven that the recovery rate of patients is accelerated where levels of natural light are increased.

■ Work and Study Benefits

Natural daylight improves concentration so that working environments, offices or factories, with daylight tend to achieve better productivity.

In retail environments research suggests that in many situations sales tend to be better in naturally lit locations as colours are more vivid and true, making goods appear more attractive. Some of the UK's leading retailers now include large areas of rooflights in the specifications for their new build projects to ensure a high percentage of natural light to the sales floor.

In education, research shows a positive correlation between classrooms with good natural light and improved student performance – and attendance.

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Building Regulations Part L now acknowledges the effectiveness of rooflights in providing natural daylight into a building.

Dadome Rooflights

The Natural Choice



Dadome Rooflights are specially designed to meet the growing demands of the flat roofing market and offer...

■ Guaranteed Performance

Dadome Rooflights are guaranteed not to leak, show excessive changes in colour or light transmission and not to lose impact strength due to weathering for a period of 10 years.

In addition, when they're installed as part of an Icopal approved roofing system and by an Icopal approved contractor, they will become part of the system guarantee which can be insurance backed for up to 20 years*

**Terms and conditions apply.*

■ Exceptional Value

Icopal is dedicated to providing the right balance of system performance, reliability and cost to ensure you get Best Value.

Our Dadome range is no exception and provides quality without compromise – at very competitive prices.

■ Sustainability and Environment

Icopal are actively engaged in helping to reduce the carbon footprint and preserve our natural environment by improving our products to ensure they meet the highest standards, such as Part L of the building regs 2006.

■ Innovation

Innovation lies at our heart. Through fresh thinking we are continually first with new product ideas and more effective production techniques – ensuring you are offered solutions born out of the latest design and technical advances available in today's market.

■ Comprehensive Support from the Market Leader

As one of the largest manufacturers of roofing and building membranes in the world our resources and ability to supply a wide range of accredited roofing systems from a single source is your reassurance of quality and value. It is well proven that defect and site problems are reduced significantly by shortening the supply chain.

Whether you're looking at new build or refurbishment, domestic or commercial projects, Icopal have rooflight and integrated waterproofing systems to suit all applications, budgets and preference.

You'll also have access to one of the largest technical services departments in the industry who are on hand to assist in every aspect of roof design, specification or installation including:

- **Guidelines on meeting thermal and daylight requirements of the Building Regulations**
- **Choosing the correct rooflight**
- **NBS specifications**
- **Technical drawings**
- **Correct methods of detailing**
- **Site surveys**
- **On-site installation support**



Icopal Dadome

General Information – What Part L means for Rooflights

The effects of Part L 2006 on rooflights are great but can be summarised below...

Part L2A & L2B – New and Existing Buildings, other than Dwellings

- The percentage of the roof area that must contain rooflights is stated at a minimum of 10% under the Part L Regulations changes of 2006 and could be as high as 20%.
- The 20% level is allowable provided consideration is given to Solar Gain and steps are taken to avoid overheating. This can be achieved by Solar Control Glazing (Cool & Clear) or the orientation of the unit.
- The 10% figure assumes a light transmittance of 70%. If however this is lower, then the area of rooflights must be increased.
- Rooflights will be required to have a 'U' value of 2.2W/m²/K or better, including the upstand. These were excluded in the previous Part L regulations. It is therefore vital that the Whole Unit achieves the 'U' value. If a rooflight is to be placed on an existing builders kerb then the builder's kerb must be insulated to the same values as the roof.
- There will be no "Trade off" against other elements of the roof unless under special circumstances.

Part L1A & L1B – New and Existing Dwellings

- Rooflights will be required to have a 'U' value of 2.2W/m²/K or better, including the upstand. These were excluded in the previous Part L regulations. It is therefore vital that the Whole Unit achieves the 'U' value. If a rooflight is to be placed on an existing builders kerb then the builders kerb must be insulated to the same values as the roof.
- New build rooflights must have a 'U' value of 2.2W/m²/K or better.
- Refurbishment projects – new rooflights are considered to be controlled fittings and as such must have a 'U' value of 1.8W/m²/K for glass and 2.2W/m²/K for plastic glazing.
- Replacement rooflights on refurbishment projects must have a 'U' value of 2.0W/m²/K or better.
- Adequate levels of daylight must be provided as detailed in BS8206.

Help and Advice

Comprehensive technical and sales support is available to offer advice on all aspects of design, specification and installation of Icopal products.

For further information call our Technical Services Department

0161 865 4444

e-mail info.uk@icopal.com
or visit www.icopal.co.uk



All triple skin Dadome Rooflights meet current Building Regulations Part L for energy efficiency

Dadome Rooflights

Range Features and Benefits

Clear



Bronze



Opal



Obscure



■ Choice of Glazing

Only the highest quality UV protected polycarbonate glazing, available in a range of shapes and tints, is used.

Clear glazing permits high light transmission, solar control tinted grades limit glare and thermal energy transmission into the building and reduce brightness to a suitable level, obscure glazing provides security whilst still allowing light transmission into the building (see page 19 for light transmission data).

Dadome polycarbonate domes have high UV and impact resistance and a Tp(a) rigid classification as described in Approved Document B of the Building Regulations. All Dadome polycarbonate domes achieve the highest external fire rating available – FAA. Polycarbonate has a class 1 surface spread of flame rating to BS 476: Part 7.

■ Dome Frames

Each system is designed and manufactured using the highest quality PVC and provides an excellent thermal barrier ensuring minimal heat transmission.

■ Seals

Particular attention is given to the spacing and sealing between skins to ensure maximum insulation and minimum condensation.

■ Security Fixings

The patented security fixings are designed not to be removed once in place, thereby providing a high level of resistance to forced entry.

■ Upstands

Also designed and manufactured using the highest quality materials, they require no additional insulation and provide an excellent thermal barrier ensuring minimal heat

transmission.

■ Ventilation

For areas where ventilation is required, manually or electrically operated ventilation units and trickle and open/close ventilation units integrated into rooflight upstands are available.

■ Wide Range of Accessories

Accessories available include Integrated Burglar Bars/Anti-vandal Security Grids, Winding Poles for opening and closing ventilation and a Comfort Pack which senses temperature and rain and automatically opens and closes electric hinged models. See page 18 for full details.

■ Suitable for all Roof Finishes

All Dadome Rooflights are compatible with Icopal roof waterproofing products and systems including built-up bitumen, single ply, liquid systems, hot melt systems and green roof systems.

■ Product Testing

All Icopal Dadome rooflights have been successfully tested by NAMAS approved laboratories to the highest window standards. Thermal performance tests have been conducted by the BBA/NPL.

Fragility – all Icopal Dadome rooflight ranges have been tested in accordance with BS EN 1873 Class SB1200 – Test for Soft Body Impact Resistance. The results show that the Dadome range can sustain the highest impact test of 1200 Joules at the ‘most unfavourable’ position.

Fire Rating – Icopal only use polycarbonate glazing in their rooflight range which achieve the highest industry fire rating standards; BS 476 part 7: Test for surface spread of flame – Class 1Y rating.

For full details of Dadome Rooflights features refer to individual product range pages or call Icopal on 0161 865 4444

Dadome Rooflights

Product Range at a Glance

Dadome Rooflights offer a complete range of options making them the ideal choice for providing natural daylight into commercial, industrial and domestic buildings...

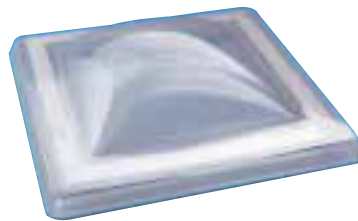
■ Dadome Stratus

The ultimate in rooflight design suitable for any roofing application. Available in square and rectangular domes and pyramids in a wide range of sizes.



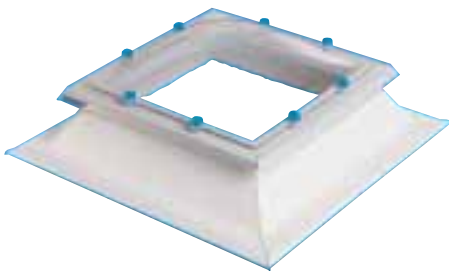
■ Dadome Glaze

A versatile rooflight dome specifically designed for refurbishment. Available in a wide range of sizes.



■ Dadome Vista

High quality universal rooflight system available in square and rectangular domes and pyramids in a wide range of sizes.



■ Dadome Access Hatches

Hinged rooflights that can be opened through 90 degrees, Stratus and Vista models available.



■ Dadome Cirrus

A high quality circular rooflight with a 150mm GRP upstand, which can add more visual impact to your roof.



■ Dadome Vaults

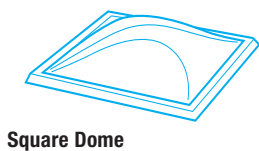
A fully self supporting continuous system, ideally suited for applications in commercial and industrial buildings.



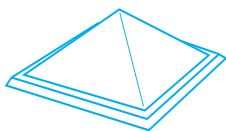
All triple skin Dadome Rooflights meet current Building Regulations Part L for energy efficiency

Dadome Stratus

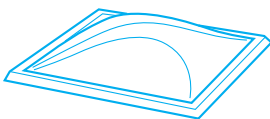
The ultimate in rooflight design, the Dadome Stratus can be specified for virtually any rooflight application. A fully insulated PVCu unit, it provides complete thermal efficiency and minimises the risk of condensation.



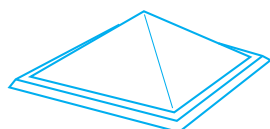
Square Dome



Square Pyramid



Rectangular Dome



Rectangular Pyramid

Features and Benefits

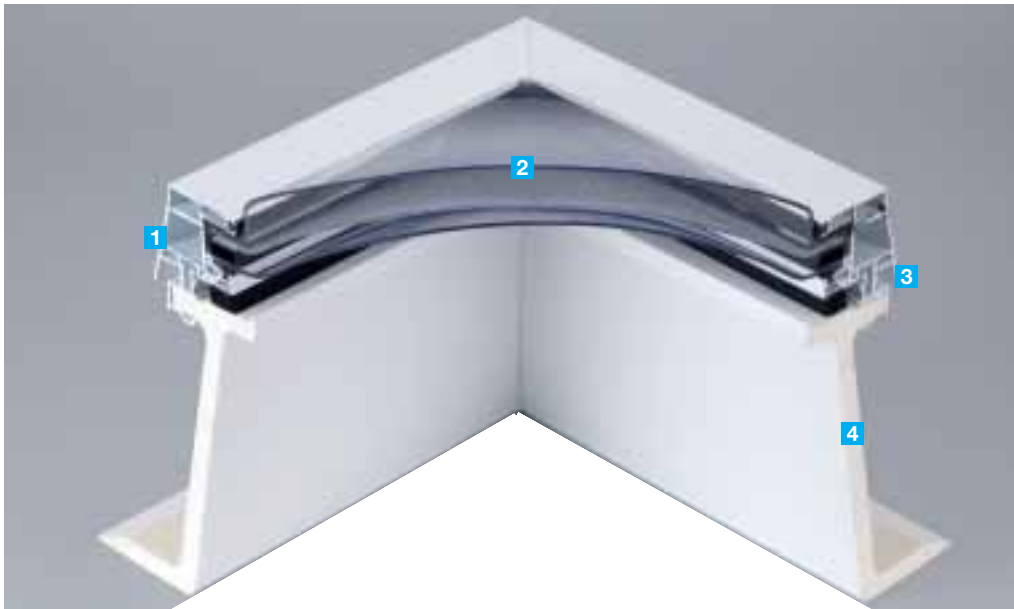
- Insulated 235mm high PVCu upstand with smooth white external and internal finish
- Double/triple skin UV enhanced polycarbonate glazing, that's long lasting and highly durable
- Domes and pyramids as standard
- Patented security fastening system provides a high level of resistance to forced entry
- Integral security frame to hide fixings and provide additional security
- Available as hinged units, which are manually or electrically operated, and as fixed units
- Easy to fit and install
- Low maintenance
- PVC kerb adaptor available (ask for details)
- Suitable for most roofing applications and can be used with all traditional roof finishes
- Triple glazed unit is Part L 2006 compliant
- Complies to current BS476 fire rating
- Access Hatch version available (see page 12)

Availability

Dadome Stratus Rooflights are available in the following sizes

Shape	Roof Opening Dimension (mm)	Daylight Size (mm)
Square Dome/ Square Pyramid	600 x 600	450 x 450
	750 x 750	600 x 600
	900 x 900	750 x 750
	1050 x 1050	900 x 900
	1200 x 1200	1050 x 1050
Rectangular Dome/ Rectangular Pyramid	1800 x 1800	1800 x 1800
	600 x 900	450 x 750
	600 x 1200	450 x 1050
	750 x 900	600 x 750
	900 x 1200	750 x 1050
	1050 x 1500	900 x 1350
	1200 x 1800	1050 x 1650
1200 x 2400	1050 x 2250	

Other sizes available to order, please ask for details.



Performance

Thermal properties of Dadome Stratus Rooflights are as shown below:

	'U' value
Glazing	
Double skin	2.77 W/m ² K
Triple skin	1.88 W/m ² K
Upstand	
235mm high	1.81 W/m ² K*
System	
Double skin on 235mm upstand	2.58 W/m ² K*
Triple skin on 235mm upstand	1.37 W/m ² K*
Light Transmission	
See table on page 18	

All of the above figures are designed as a guide only. Those marked with * are Hot Box test results (certificate numbers available on request) and have been adjusted for SBEM. All other figures quoted are based on calculation methods.

Part L 2006 compliant product or better.

If the upstand height of the rooflight is 200mm or greater from the deck waterproofing level, then a termination bar must be fixed at the top of the rooflight upstand to hold the waterproofing membrane in place.

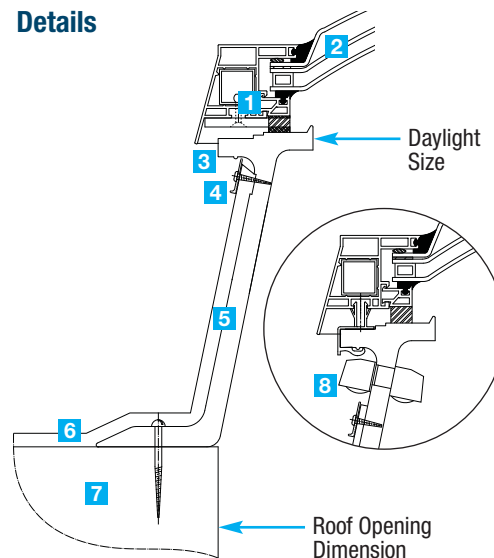
Options

All shapes and sizes are available in the following options:

- **Glazing**
Double Skin or Triple Skin
- **Colour**
Clear, Obscure, Opal (to order) or Bronze (to order)
- **Ventilation**
Manually Operated Hinge, Electrically Operated Hinge or Trickle (to order)
- **Extras**
Comfort Pack, Operating Pole and Burglar Bars

See page 18 for full details.

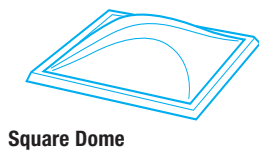
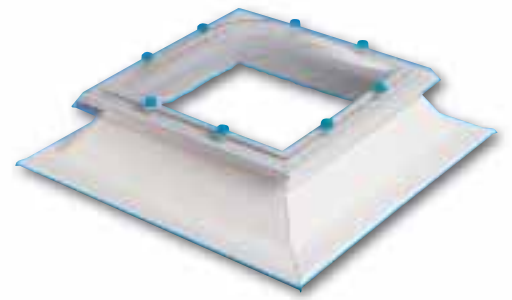
Details



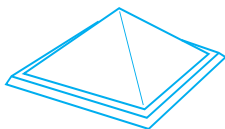
- 1 PVC edge frame thermally broken to eliminate cold bridging
- 2 Spacing and sealing between skins ensures maximum insulation and minimum condensation
- 3 Unique concealed snap fixings for added security
- 4 Membrane termination bar
- 5 235mm high foamed modified PVC upstand (PVC kerb adaptor also available, ask for details)
- 6 Waterproof membrane
- 7 Roof deck
- 8 Optional trickle ventilation with shutter control

Dadome Vista

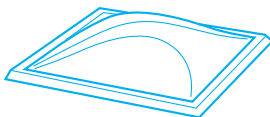
A high quality universal rooflight system, the Dadome Vista range is available in a comprehensive selection of sizes making it ideal for virtually any application.



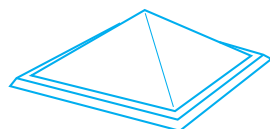
Square Dome



Square Pyramid



Rectangular Dome



Rectangular Pyramid

Features and Benefits

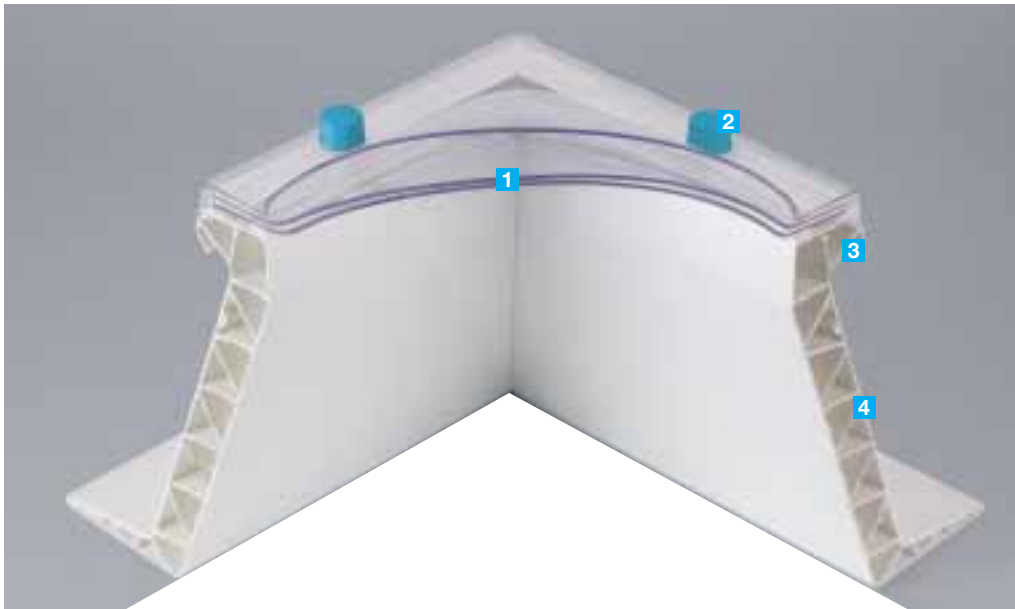
- Insulated PVCu upstands with smooth white external and internal finish available in two heights, 150mm and 300mm
- Double/Triple skin UV enhanced polycarbonate glazing, long lasting and highly durable
- Domes and pyramids as standard
- Patented security fixing provides a high level of resistance to forced entry
- Optional security frame to hide fixings and provide additional security
- Available as hinged units, which are manually or electrically operated, and as fixed units
- Easy to fit and install
- Low maintenance
- PVC kerb adaptor available (ask for details)
- Suitable for most roofing applications and can be used with all traditional roof finishes
- Triple glazed unit is Part L 2006 compliant
- Complies to current BS476 fire rating
- Access Hatch version available
(see page 12)

Availability

Dadome Vista Rooflights are available in the following standard sizes

Shape	Roof Opening Dimension (mm)	Daylight Size (mm)
Square Dome/ Square Pyramid	600 x 600	400 x 400
	750 x 750	550 x 550
	900 x 900	700 x 700
	1000 x 1000	800 x 800
	1100 x 1100	900 x 900
	1200 x 1200	1000 x 1000
	1500 x 1500	1300 x 1300
Rectangular Dome/ Rectangular Pyramid	1800 x 1800	1600 x 1600
	600 x 900	400 x 700
	600 x 1200	400 x 1000
	750 x 900	550 x 700
	900 x 1200	700 x 1000
	900 x 1500	700 x 1300
	900 x 1800	700 x 1600
	1000 x 1500	800 x 1300
	1200 x 1800	1000 x 1600
	1200 x 2400	1000 x 2200

Other sizes available to order, please ask for details.



Options

All shapes and sizes are available in the following options:

■ Glazing

Double Skin or Triple Skin

■ Colour

Clear, Obscure, Opal (to order) or Bronze (to order)

■ Ventilation

Manually Operated Hinge, Electrically Operated Hinge, Trickle*, Open/Close* or Permanent*

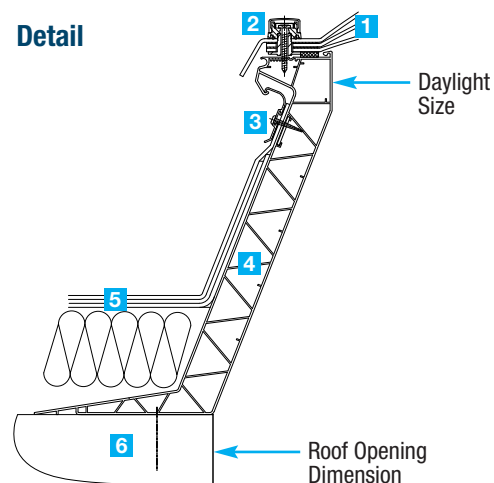
■ Extras

Comfort Pack, Operating Pole, Burglar Bars and Security Frame

See page 18 for full details.

*Available on 300mm high upstand only.

Detail



Performance

Thermal properties of Dadome Vista Rooflights are as shown below:

	'U' value
Glazing	
Double skin	2.85 W/m ² K
Triple skin	1.94 W/m ² K
Upstand	
150mm high	1.00 W/m ² K*
300mm high	1.10 W/m ² K*
System	
Double skin on 150mm upstand	2.20 W/m ² K
Triple skin on 150mm upstand	1.31 W/m ² K*
Double skin on 300mm upstand	2.20 W/m ² K
Triple skin on 300mm upstand	1.31 W/m ² K*
Light Transmission	
See table on page 18	

All of the above figures are designed as a guide only. Those marked with * are Hot Box test results (certificate numbers available on request) and have been adjusted for SBEM. All other figures quoted are based on calculation methods.

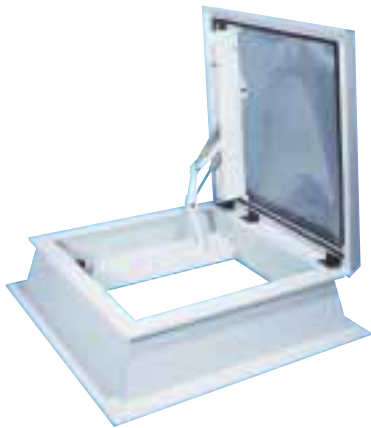
Part L 2006 compliant product or better.

If the upstand height of the rooflight is 200mm or greater from the deck waterproofing level, then a termination bar must be fixed at the top of the rooflight upstand to hold the waterproofing membrane in place.

- 1 Spacing and sealing between skins ensures maximum insulation and minimum condensation**
- 2 Security fixing system**
- 3 Membrane termination bar**
- 4 Insulated PVC upstand available in 2 heights 150mm and 300mm**
- 5 Waterproof membrane**
- 6 Roof deck**

Dadome Access Hatches

Hinged rooflights that can be opened through 90 degrees. Two models are available both of which maintain the same high standards of the Stratus and Vista ranges.



Dadome Stratus

Dadome Stratus Access Hatch

- Can be opened through 90 degrees
- Unit is semi-automatic and partially opens by means of a gas ram when released
- Unit is also counter balanced by a second gas ram to enable full opening with minimum effort
- Handle on opening section to assist in closing
- Standard operation is from the inside (external operation can be provided)
- Supplied fully assembled on upstand ready for installation.

Availability

Dadome Stratus Access Hatches are available in the following sizes.

Shape	Roof Opening Dimension (mm)
Square Dome/ Square Pyramid	900 x 900
Rectangular Dome/ Rectangular Pyramid	750 x 900 900 x 1200



Dadome Vista

Dadome Vista Access Hatch

- Upstands available in two heights, 150mm and 300mm
- Can be opened through 90 degrees
- Handle on opening section to assist in closing
- Standard operation is from the inside (external operation can be provided).

Availability

Dadome Vista Access Hatches are available in the following sizes.

Shape	Roof Opening Dimension (mm)
Square Dome/ Square Pyramid	1000 x 1000 1100 x 1100
Rectangular Dome/ Rectangular Pyramid	750 x 900 900 x 1200

Performance

Thermal properties of Dadome Stratus Access Hatches are as given on page 9.

Thermal properties of Dadome Vista Access Hatches are as given on page 11.

Options

All shapes and sizes are available in the following options:

- **Glazing**
Double Skin or Triple Skin
- **Colour**
Clear, Obscure, Opal (to order) or Bronze (to order)
- **Ventilation**
Trickle

Options

All shapes and sizes are available in the following options:

- **Glazing**
Double Skin or Triple Skin
- **Colour**
Clear, Obscure, Opal (to order) or Bronze (to order)
- **Ventilation**
Trickle*, Open/Close* or Permanent*
- **Extras**
Operating Pole (for use with open/close Ventilation)

*Available on 300mm high upstand only.

Dadome Cirrus



A high quality circular rooflight on a 150mm GRP upstand, which can add more visual impact to your roof.



Features and Benefits

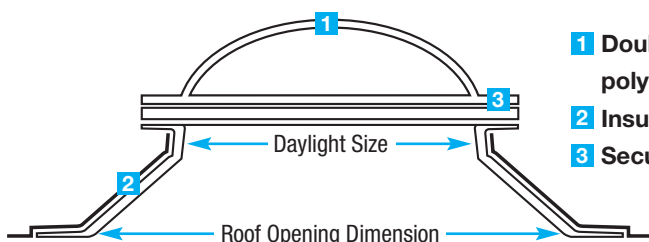
- 150mm GRP upstands with smooth white external and internal finish.
- Double/triple skin UV enhanced polycarbonate glazing that's long lasting and highly durable.
- Patented security fixings provide a high level of resistance to forced entry.
- Available as hinged units, which are manually or electrically operated, and as fixed units.
- Easy to fit and install
- Low maintenance
- Suitable for most roofing applications and can be used with all traditional roof finishes.
- Triple glazed unit is Part L 2006 compliant
- Complies with BS476 fire ratings (see page 6 for further details)

Availability

Dadome Cirrus Rooflights are available in the following standard sizes.

Roof Opening Dimension (mm diameter)	Daylight Size (mm diameter)
650	400
750	500
850	600
950	700
1,050	800
1,150	900
1,250	1,000
1,450	1,200
1,550	1,300
1,850	1,600
2,050	1,800
2,250	2,000
2,450	2,200

Other sizes available to order, please ask for details.



- 1 Double/triple skin UV enhanced polycarbonate glazing
- 2 Insulated GRP Upstand
- 3 Security fixings

Options

All shapes and sizes are available in the following options:

- **Glazing**
Double Skin or Triple Skin
- **Colour**
Clear, Obscure, Opal (to order) or
Bronze (to order)
- **Ventilation**
Manually Operated Hinge or Electrically Operated Hinge
- **Extras**
Comfort Pack, Operating Pole or Burglar Bars

See page 18 for further details.

Performance

Thermal properties of the Dadome Cirrus rooflights are as shown below:

	'U' value
Glazing	
Double skin	2.8 W/m ² K
Triple skin	1.9 W/m ² K
Upstand	
150mm high	1.6 W/m ² K
System	
Double skin on 150mm upstand	2.2 W/m ² K
Triple skin on 150mm upstand	1.3 W/m ² K
Light Transmission	
See table on page 18	

All the above figures are designed as a guide only and are based on calculation methods.

Part L compliant product or better.

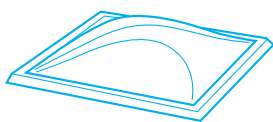
Dadome Glaze

A versatile range of rooflight domes specially designed for refurbishment, Dadome Glaze Rooflights have a 100mm flange enabling them to be fitted to existing kerbs of varying dimensions.

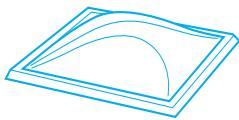


Features and Benefits

- Horizontal flange allows Dadome Glaze Rooflights to be positioned over existing kerbs of varying dimensions and widths
- Larger dimension between the outside kerb and the inner face of the vertical moulding allows old rooflights to be replaced without the need for a kerb adaptor
- Double/triple skin UV enhanced polycarbonate glazing, long lasting and highly durable
- Domes as standard
- Security fixings provide a high level of resistance to forced entry
- Easy to install with minimum disturbance
- Triple glazed units are Part L 2006 compliant
- Complies to current BS476 fire rating



Rectangular Dome



Square Dome

Options

All shapes and sizes are available in the following options:

- **Shape**
Square Dome or Rectangular Dome
- **Glazing**
Single Skin*; Double Skin or Triple Skin
- **Colour**
Clear, Obscure, Opal (to order) or Bronze (to order)

**Available in clear only.*

Availability

Dadome Glaze are available in the following sizes.

Shape	Dome Size (mm)	External Kerb Size	
		Minimum (mm)	Maximum (mm)
Square Dome	600 x 600	510 x 510	610 x 610
	750 x 750	660 x 660	760 x 760
	900 x 900	810 x 810	910 x 910
	1050 x 1050	960 x 960	1060 x 1060
	1200 x 1200	1110 x 1110	1210 x 1210
	1500 x 1500	1410 x 1410	1510 x 1510
	1800 x 1800	1710 x 1710	1810 x 1810
Rectangular Dome	600 x 900	510 x 810	610 x 910
	600 x 1200	510 x 1110	610 x 1210
	600 x 1800	510 x 1710	610 x 1810
	750 x 900	660 x 810	760 x 910
	900 x 1200	810 x 1110	910 x 1210
	900 x 1800	810 x 1710	910 x 1810
	1050 x 1500	960 x 1410	1060 x 1510
	1200 x 1800	1110 x 1710	1210 x 1810
	1200 x 2400	1110 x 2310	1210 x 2410

Performance

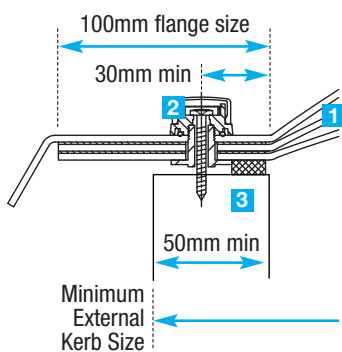
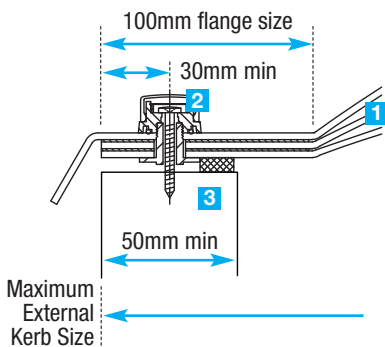
Thermal properties of Dadome Glaze are as shown below:

	'U' value
Glazing	
Single skin	5.30 W/m ² K
Double skin	2.85 W/m ² K
Triple skin	1.26 W/m ² K*
Light Transmission	
See table on page 18	

All of the above figures are designed as a guide only. Those marked with * are Hot Box test results (certificate numbers available on request) and have been adjusted for SBEM. All other figures quoted are based on calculation methods.

Part L 2006 compliant product or better.

Detail



- 1 Spacing and sealing between skins ensures maximum insulation and minimum condensation**
- 2 Security fixing system**
- 3 Builders kerb**

Dadome Vault Rooflights

A fully self supporting continuous system, ideally suited for applications in commercial and industrial buildings.



Features and Benefits

- Available in low-rise and high-rise profiles
- Frames are manufactured from 6063 grade aluminium extrusions with mill finish as standard. They can also be polyester powder coated to any standard RAL colour
- Glazing seals in accordance with BS 4255: Part 1: 1986 (1992)
- Glazed units are clamped in position with radial screws using standard glazing bars
- Single or dual opening sections may be incorporated
- Security fixings provide a high level of resistance to forced entry
- Triple glazed units are Part L 2006 compliant
- Complies to current BS476 fire rating

Installation

Dadome Vault Rooflights are installed onto builders kerbs, prepared by the roofing contractor in accordance with Icopal's recommendations.



Availability

Dadome Vaults are available in the following sizes.

Solid Polycarbonate Skin	
Span	Purpose made to any dimension between 0.6 to 8.0m
Bays	Are designed at 1.0m centres (with the exception of the two end bays which are sized in accordance with the required dimensions)
Terminations	Each run is terminated with either gable glazed ends, open ends or wall abutments
Structured Multi Wall Polycarbonate Skin	
Span	Purpose made to any dimension between 1.0 to 15.0m
Bays	Are designed at 1.065m centres (with the exception of the two end bays which are sized in accordance with the required dimensions)
Terminations	Each run is terminated with either gable glazed ends, open ends or wall abutments

Options

All shapes and sizes are available in the following options:

Solid Polycarbonate Skins

- **Glazing**
Single Skin, Double Skin or Triple Skin
- **Colour**
Clear, Opal (to order) or Bronze (to order)
- **Ventilation**
Top Hung or Moveable Vents

Structured Multi Wall Polycarbonate Skins

- **Glazing**
10mm Five Wall, 16mm Six Wall, 16mm Five Wall or 20mm Five Wall
- **Colour**
Clear or Opal (to order)
- **Ventilation**
Top Hung or Moveable Vents

Performance

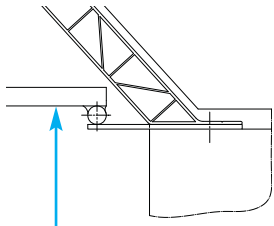
Thermal properties of complete Dadome Vault units are as shown below:

Solid Polycarbonate Skin	
Thermal Properties	'U' value
Single skin	5.30 W/m ² K
Double skin	2.80 W/m ² K
Triple skin	1.90 W/m ² K
Light Transmission	
Single skin	
Clear	60%
Opal	33%
Bronze	31%
Double skin	
Clear + Clear	68%
Opal + Clear	38%
Bronze + Clear	35%
Triple skin	
Clear + Clear + Clear	77%
Opal + Clear + Clear	43%
Bronze + Clear + Clear	40%
Structured Multi Wall Polycarbonate Skin	
Thermal Properties	'U' value
10mm five wall	2.50 W/m ² K
16mm six wall	1.82 W/m ² K
16mm five wall	1.93 W/m ² K
20mm five wall	1.70 W/m ² K



Dadome Rooflights

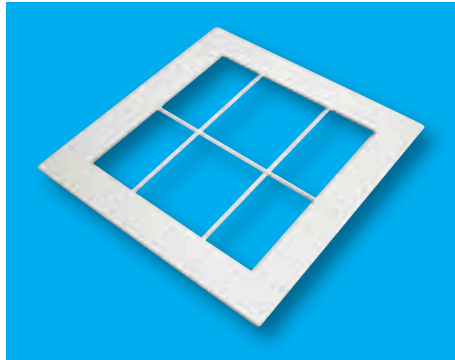
Accessories, Specifying and Ordering



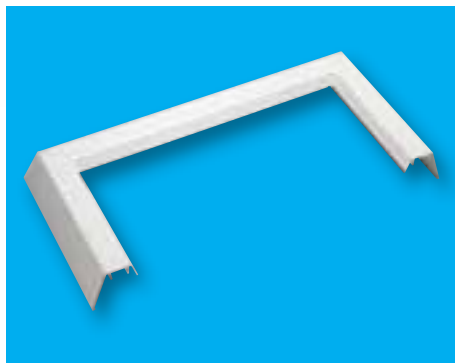
**Burglar Bar
integrated into
rooflight**

Accessories

A wide range of accessories are available including:



- **Integrated Burglar Bars** – polyester coated steel integrated burglar bar/anti vandal security grid.



- **Security Covers** – to cover and protect external rooflight fixings.
- **Long arm poles** – for opening and closing ventilation.
- **Winding poles** – for opening closing manual hinged ventilation.
- **Comfort packs** – which sense temperature and rain and automatically opens and closes electric hinged models (comes with control panel and remote control).

Specifying and Ordering

The checklist below is designed to assist when specifying and ordering Dadome Rooflights. Please check product specification pages for specific details and availability under each category.

Roof mounting

- **Upstand** – measure size of roof opening (width and length)
- **Builders kerb** – measure internal and external dimensions

Once above have been determined, specify the Dadome Rooflight(s)

- **Model** (eg: Stratus)
- **Size** (to fit roof opening)
- **Upstand height** (Vista only)
- **Shape** (dome or pyramid)
- **Colour** (clear, obscure or tinted)
- **Skin** (double, triple or quad)
- **Ventilation** (eg manual, electric etc)

For help or advice contact our Technical Services Department

0161 865 4444

e-mail info.uk@icopal.com

Dadome Rooflights

Installation, General Information and Warranty



Installation and Site Work

■ Delivery

Icopal Dadomes are delivered ready assembled and with protective shrink wrapping. This should be cut where indicated and the lower portion removed. The protection to the glazing element should remain in place until all roofing work is completed.

■ Installation

Dadome rooflights are easy to install and can be used with Icopal roof waterproofing products and systems including:

- **Torch applied built-up bitumen systems (eg: Profiles, Pyrobar, Total Torch)**
- **Pour and roll applied built-up bitumen systems (eg: Proflex, Power Elastomeric)**
- **Single Ply systems (SureWeld TPO, Monarplan PVC)**
- **Liquid systems (Elastoflex)**
- **Hot melt systems (Parabit)**
- **Green roof systems.**

For further details and specifications regarding installation contact Icopal Technical Services.

General Information

■ Condensation

This is caused by environmental conditions outside of our control. Incorrect storage can also promote condensation between the skins once the unit is installed. Condensation occurs without there being any inherent fault in the unit itself.

■ Maintenance

All Icopal Dadomes are easily cleaned by washing them with mild diluted household detergent and then rinsing off with clean water. Abrasive cleaners or chemical solvents must not be used.

■ Safety

For advice on the safe use of rooflights and the fragility of the products please contact our Technical Department.

Warranty

“Icopal domes and 35°/45° pyramids, glazed with enhanced polycarbonates, will not leak or show excessive changes in colour or loss of light transmission, nor will they break due to loss of impact strength, due to weathering, within 10 years from the date of sale.”

The glazing materials covered by this Warranty are clear, bronze and obscure grades. This Warranty is valid for the period of 10 years from the date of sale and is subject to the following conditions:

1. The product has been correctly installed and maintained in accordance with Icopal's written fixing and maintenance instructions.
2. The product must be transported and stored, prior to installation, in accordance with Icopal's recommendations.
3. The Warranty will not apply if the product has been scratched, abraded or exposed to corrosive materials.
4. Change in colour will be measured by a yellowness index test to ASTM D1925 (1977). Material displaying a change of 10 delta from the original value will not be subject for a claim.
5. The change in light transmission will not be greater than 6% compared with the original value. The test will be ASTM D1003 (1977).
6. Determination of loss of impact strength, due to weathering, will be conducted to DIN 52290 Part 4, level A1.
7. In the event of a claim, the goods must have been paid for in full and proof of purchase must be provided.
8. In case of complaint, Icopal must be provided with free of charge uninterrupted access in order to inspect, repair or replace a faulty product.
9. Icopal will endeavour to carry out a replacement/repair with a minimum of delay but shall not be liable for the consequence of any delay in carrying out the repair/replacement, whatever its duration or cause and Icopal shall not be liable under this Warranty for any indirect financial or consequential loss resulting from or arising in connection with the defective product.
10. The warranty on electrical and pneumatic operating mechanisms and decorative finishes is limited to that given by the equipment manufacturer.
11. This Warranty is valid only to products installed in the UK and is subject to the Law of England.

Performance

Light Transmission

Glazing	Light %
Single Skin	
Clear	82%
Obscure	82%
Opal*	49%
Bronze*	45%
Double Skin	
Clear + Clear	77%
Clear + Obscure	77%
Opal* + Clear	43%
Bronze* + Clear	40%
Triple Skin	
Clear + Clear + Clear	68%
Clear + Clear + Obscure	68%
Opal* + Clear + Clear	38%
Bronze* + Clear + Clear	38%

* To order

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Republic of Ireland

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 Fax: 1800 409 055

www.icopal.co.uk

Icopal Accessories

A range of accessories specially designed to meet the exacting standards of modern flat roofing whilst maintaining the waterproofing integrity of the roof including:

- | | |
|--|---|
| 1 Roofgard Roof Outlet | 9 Roofgard Terradek |
| 2 Roofgard Parapet Outlet | 10 Roofgard Plant Support System |
| 3 Roofgard Cable and Pipe Duct | 11 Dadome Rooflights |
| 4 Roofgard Cowled Telescopic Vent | 12 Xtra-Seal Sealants and Mastics |
| 5 Roofgard Lightning Conductor Clip | 13 Xtra-Seal Solutions and Compounds |
| 6 GRP Roof Trims | 14 FormFlash Lead Free Flashing |
| 7 Terrace Grates | 15 KwikGuard Edge Protection |
| 8 Roofgard Paving Support System | 16 KwikLine Fall Restraint Systems |



Every effort has been taken in the preparation of this brochure to ensure the accuracy of representations contained herein. Recommendations as to the use of materials, construction details and methods of installation are given in good faith and relate to typical situations. However, every site has different characteristics and reliance should not be placed upon the foregoing recommendations. Advice can be given as to specific applications of the products, upon request.