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Issue 1.0

more choice, better prices.

NATIONAL DOMELIGHT COMPANY

ThermaDome | Polycarbonate Rooflights

The UK's Leading Supplier of Rooflights, Skylights and Smoke Vents.

The National Domelight Company

The National Domelight Company are specialist suppliers of domelights, rooflights, skylights and smoke vents, to roofing contractors and builders, to developers of commercial and residential property, and to private homeowners.

Our family-run company has been successfully trading for over 30 years and our UK-based sales team has more than 100 years of rooflight and skylight knowledge between them. You can trust us to know what we are talking about and to give you the best advice and guidance to find the right rooflight for you.

Why choose the National Domelight Company?

• Widest choice

We are the UK's leading supplier of rooflights and as a result we can supply you with any size, shape and material of rooflight, and with any combination of upstands and accessories, that you will ever need – *and all at the best trade prices.*

• No more waiting

We deliver a first class service and our large warehouse and stocks mean that you won't have to wait long for your order. We can deliver most stock units, direct to site, within 72 hours. Our ***FREE nationwide delivery*** service means your rooflight will be safely delivered at your convenience – just when you need it.

• Best quality

Our prices are competitive yet we still deliver industry leading quality and service in everything we do. Guaranteed.

• Dedicated support

We have been supplying the roofing industry for decades and to help you we provide useful resources at www.nationaldomes.com and CAD downloads to incorporate into your digital plans. Just call our ***Technical Support Team on 01276 451555*** for practical advice and support, no matter what you need.

Don't just take our word for it – Put us to the test, let us quote your next job and see just how much you could save! We guarantee excellent products, at sensible prices.

Our guarantee of quality

All rooflights and skylights supplied by The National Domelight Company have been fully tested before they are added to our portfolio. This ensures you can always rely on our industry leading quality no matter what your requirement.

Protecting the environment

The National Domelight Company is fully aware of the effects that the construction industry can have on the environment. We work hard to ensure that our business, sourcing and logistics processes have a minimal effect on the environment, and that our products have a reasonable lifespan and can be recycled wherever possible.

Why we need natural light

There is no denying that natural daylight in a room can make all the difference to its occupants. Rooflights are the best way of introducing natural light and can provide up to three times more daylight than an equally-sized vertical window. People work better in naturally lit workspaces and natural lighting can have less of an environmental impact than artificial lighting.

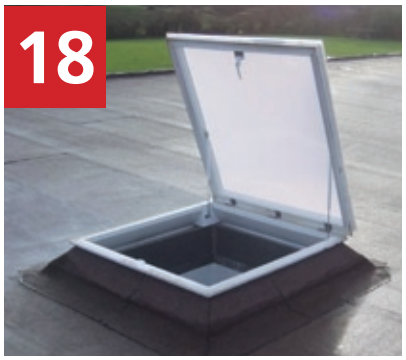
The National Domelight Company can advise on specific industry policies and regulations, and give guidance on introducing natural light into buildings.

more choice, better prices.

Contents Overview

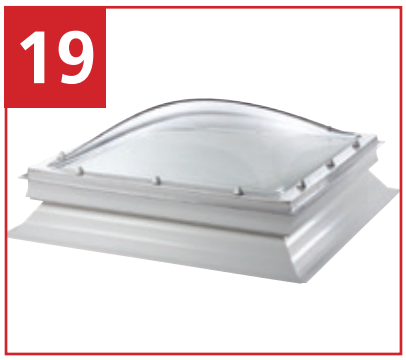
ThermaDome

Domes with ventilated upstands including:



Access Hatches

Thermadome rooflights are available as an access hatch to provide access onto roof terraces or flat roofs. Complete with lockable handle and key it is perfect for occasional access for roof clearance and maintenance.



Therma-View

New

The Therma-View rooflight is the latest and most energy efficient addition to the range. Combining glass and domed polymer glazing the Therma-View rooflight delivers improved U-values without increasing the solar gain.

Suntube

Suntubes provide an elegant solution to getting daylight into awkward corners. We stock a wide range of tubular skylights and internal tubing designed to direct natural light into the smallest of spaces, for both flat and pitched roof applications.

Rooflight size chart

Thermadome rooflights come in a wide variety of sizes. This handy chart shows our most popular sizes and gives you all the information you need to choose the right rooflight for your space.

Technical Services

The National Domelight Company sales team is always available to assist you, from your initial enquiry through to after sales support. This includes help with specification writing, site surveys, budget costings, and fully detailed quotations.

How to choose the right specification

We recommend you use the following guides to help you work out exactly what you need to specify for your project. The National Domelight team will be happy to help you apply the results to a full specification.

A

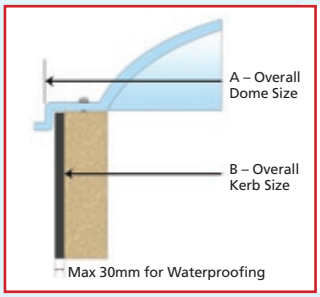
DOME/TOP ONLY

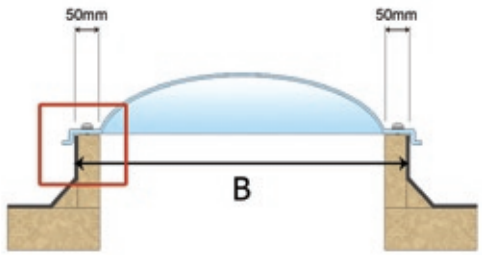
Please refer to this section if you are looking for the simplest and most basic rooflight option to suit an existing or new timber kerb.

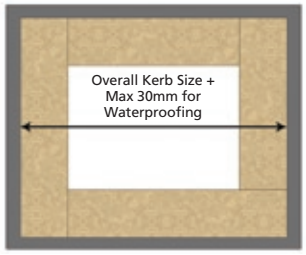
1 Size

Take measurements.

These diagrams show how to take the critical measurements required to ensure we can supply the correct size dome for your needs. This measurement is the overall timber kerb size plus a maximum of 30mm for weathering finishes.







2 Glazing

Select glazing type.

Options for top only:

Single skin – U Value 5.36
Double skin – U Value 2.68
Triple skin – U Value 1.78*
Quad skin – U Value 1.37

*Measured in Hot Box in the vertical plane in accordance with BS EN ISO 12567-2: 2005

3 Shape

Select a rooflight shape.

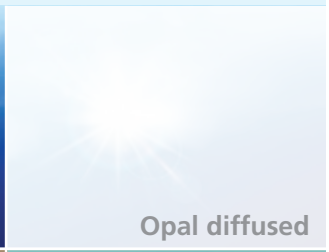
Domed
Our most popular shaped glazing type, available with Square, Rectangular or Circular base.

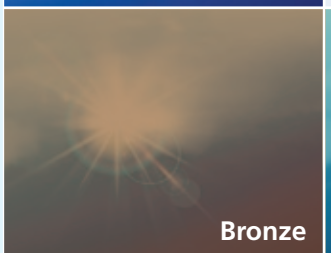
Pyramid
Square units –
A range of square units are available.

Trapezoidal
Rectangular units –
A range of trapezoidal units are available.

4 Glazing Finish

Select a finish.





ThermaDome

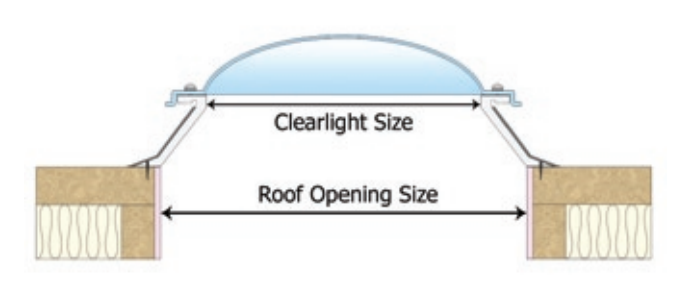
B

DOME/TOP WITH UPSTAND – WITH OR WITHOUT VENTILATION
Please refer to this section if you require a complete rooflight solution.

1 Size

Take measurements.

This diagram shows how to take the critical measurements required to ensure we can supply the correct size rooflight for you needs.



2 Kerb type
(See pages 12 & 13)

Select a kerb type.


PVC 150mm splayed kerb


PVC 150mm vertical kerb


PVC 300mm splayed kerb


GRP 150mm splayed kerb

Other non stock kerbs are available please contact us if you have a bespoke requirement.

3 Ventilation
(See pages 14, 15, 16 and 17)

Select a ventilation type that is compatible with your chosen upstand.

Permanent Trickle is suitable for all kerb types.
Controllable Trickle is not suitable for GRP kerbs.
Controllable Rotating is suitable for 300mm splayed PVC kerbs.
Manual Hinged is suitable for all kerb types.
Electric Hinged is suitable for all kerb types.
Powered Extract is suitable for 300mm splayed PVC kerbs.

4 Glazing, shape and finish

Please refer to Sections 2, 3 and 4 of guide A.

5 Other information

For more detailed information, please refer to the relevant pages in this brochure.

Domes

Thermadomes are high specification polycarbonate rooflights designed specifically to help the end-user make the best use of daylight. They come in a wide range of shapes and sizes, with a choice of glazing and ventilation options to suit every need.

Domed
Square, Rectangular or Circular.

Pyramid
Square.

Trapezoidal
Rectangular units. A range of triangular shaped trapezoidal units are available.

Features

Material
- Polycarbonate

Skin
- Single, Double, Triple or Quad

Glazing finish
- Clear, Opal diffused, Bronze or 'HeatReflect' (reflects up to 68% of heat radiation)

Shape
- Square, Rectangular, Circular

Profile
- Domed, Pyramid, Trapezoidal

Size
- Over 140 sizes, from 300 x 300mm to 1800 x 3000mm

U value W/m²K

Single skin	5.36
Double skin	2.68
Triple skin	1.78*
Quad skin	1.37

Clear/Opal glazing

*Measured in Hot Box in the vertical plane in accordance with BS EN ISO 12567-2: 2005

Why choose Thermadome rooflights?

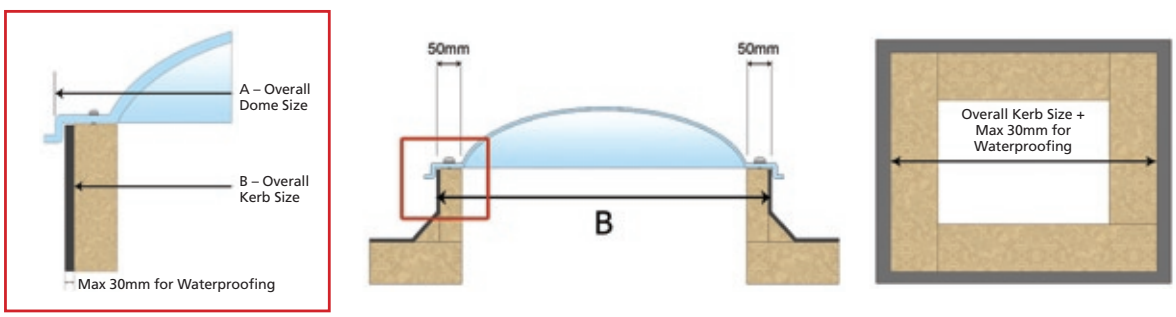
- We offer a wide range of shapes and sizes to suit your project
- Easy to install
- Tamper-proof high security screwbolt fixings come as standard so your customers can rest assured

High quality

Thermadome rooflights are manufactured from UV-protected polycarbonate sheets and come in single, double, triple or quad skin construction. They have a glazing of at least 3mm thick and are tested and certified to EN 1873: 1200 Joules and ACR(M): 001: 2005 Class B.

They are of the highest quality and are perfectly suitable for use on most flat roofs including single ply, felt, hot-melt, asphalt, liquid, GRP and lead.

Overall weathered kerb size



ThermaDome

Certification

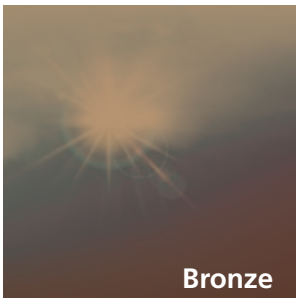
Thermadome rooflights are raised rooflights and are robust when specified with polycarbonate glazing. All Thermadome rooflights are thoroughly tested and certified to the following standards (Test certificates are available):

- Impact tested by an independent accredited test body
  - Large body impact tested to an energy level of 1200 Joules when tested to EN 1873 and ACR(M): 001: 2005 to Class B
  - Hard body impact testing according to NBN EN 13964:2007
- Awarded BBA Certificate No.10/4716 and are manufactured to ISO 9001
- Manufactured in accordance with European standards and hold a CE mark according to EN 1873

High security fixings

Thermadome rooflights come with tamper-proof screwbolt fixings as standard which prevent their removal with traditional tools. The fixings are designed to protect the glazing from excess pressure, and the risk of stress fractures, if the screws are over-tightened.

Glazing finish



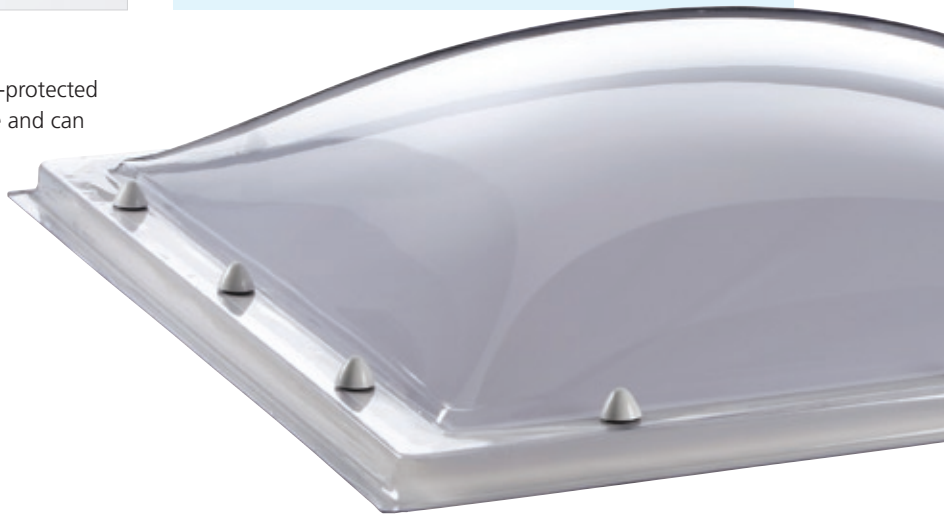
Performance of glazing materials

Typical values	Polycarbonate
Fire ratings	
To BS 476: Part 3	AA
To BS 476: Part 7	Class 1*
To 1991 Building Regulations	Tp(a)
Service temperature	-50 to +120°C

Information for 3mm thick glazing unless noted otherwise.
*Class O for Building Regulation purposes.

Thermaformed glazing

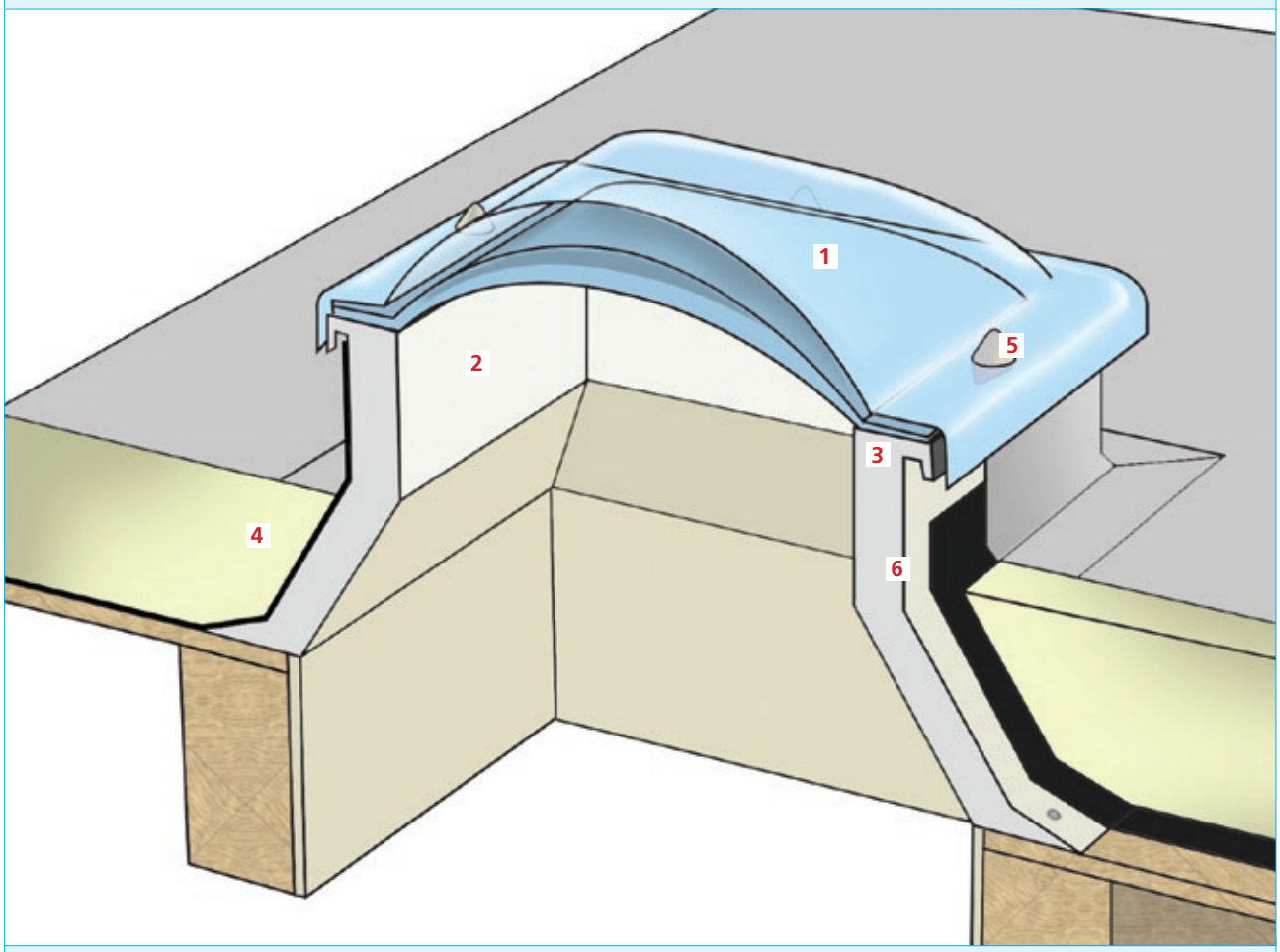
Thermadome rooflights are manufactured from UV-protected polycarbonate sheets which is virtually unbreakable and can withstand impacts up to 250 times that of glass.



Key Features

Key

1 Choice of dome, pyramid or trapezoidal shape
2 Compliant with HSG33 recommendations
3 Ventilation and access options available
4 A range of upstands to accommodate new roof insulation
5 Patented high security screwbolt fixing
6 Upstand provides tidy detailing



Thermadome Plus

Thermadome Plus is a fully enclosed, tamper-proof frame for a totally secure fixing. It is simple to install and provides a neat, unobtrusive appearance, with no visible fixings.
The design of the frame allows for a completely weatherproof, self-draining construction, incorporating standard Thermadomes in single, double or triple skin construction.

Appearance

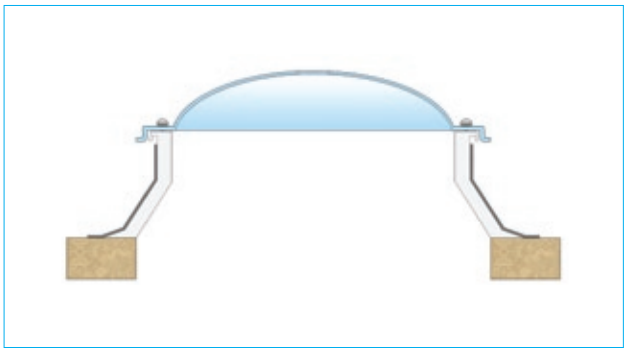
The Thermadome Plus frame is made from aluminium extrusions to BS 1474, Quality 6063/T6, and is available in mill finish. Polyester powder-coated frames are also available to special order.

Thermadome Plus tamper-proof frame
(shown on a fixed 150mm splayed PVC upstand)

Domes with fixed upstands

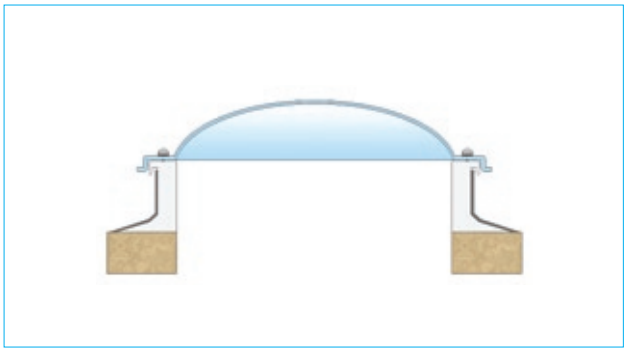
Thermadome upstands are designed for use with Thermadome rooflights and as a result provide the best thermal interface when combined as a unit. This helps to make the roof more thermally efficient and cuts down on energy bills.

Dome with 300mm splayed PVC upstand



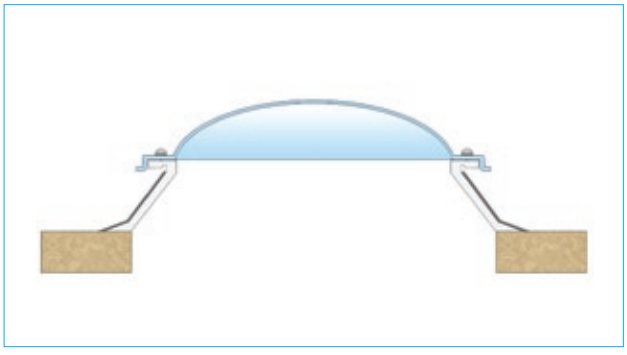
Fixed PVC 300mm splayed upstand

Dome with 150mm vertical PVC upstand



Fixed PVC 150mm vertical upstand

Dome with 150mm splayed PVC upstand



Fixed PVC 150mm splayed upstand

ThermaDome

Why choose Thermadome upstands?

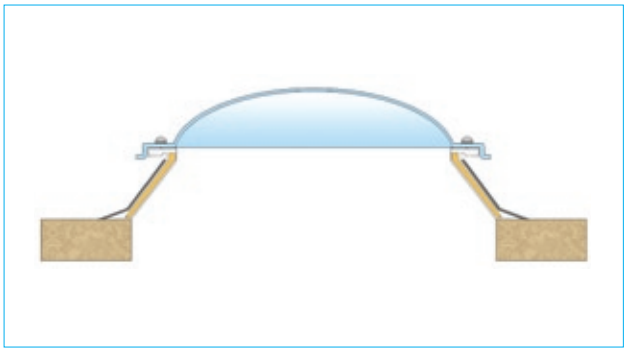
Thermadome upstands have a multi-chambered construction which makes them tough and adds to their thermal efficiency. The upstands are suitable for most roof finishes, come in a range of heights from 150 – 500mm, and are compatible with various ventilation and access hatch options.

Thermadome upstands provide outstanding value for money, are easy to install, and enhance the overall look of the rooflight. Plus the upstands are pre-finished in white on the inside so they don't need additional painting.

Upstands are available as both splayed and vertical units. The splayed units are best for spreading the light through a room however the vertical units are more suitable where the dimensions of the roof aperture need to be preserved.

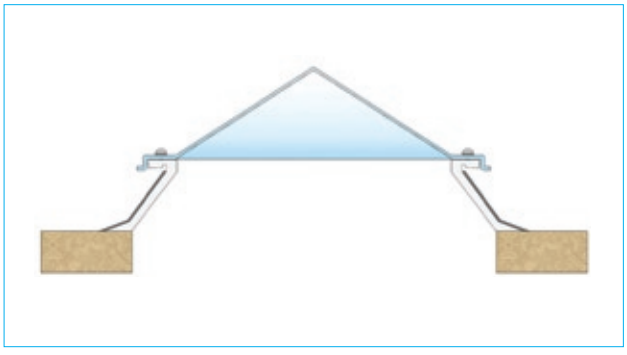
Thermadome upstands come with high security fixings that make it difficult for intruders to get in. However for those who require an even higher level of security an optional security frame is available which fully encloses the fixings within an aluminium framework.

Circular dome with 150mm splayed GRP upstand



Fixed GRP 150mm splayed upstand

Pyramid with 150mm splayed PVC upstand (Trapezoid supplied with rectangular units)



Fixed PVC 150mm splayed upstand

Domes with ventilated upstand

Fresh air is as important in any space as natural daylight and to ensure the finished room gets the right amount Thermadome rooflights come with a range of ventilation options to suit every requirement.

150mm splayed PVC upstand with controllable trickle vent

Permanent Trickle

Permanent trickle ventilation provides a continuous 5 to 10mm weatherproof vent around the edge of the rooflight which is perfect in areas, like corridors, where non-controllable background ventilation is needed.

Controllable Trickle

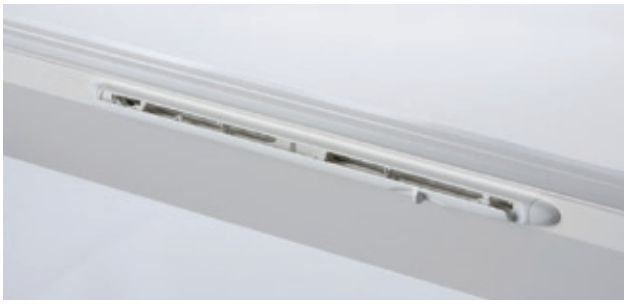
Controllable trickle ventilation is provided by an adjustable vent which is fitted to either two or four sides of the upstand. The two-sided unit provides a ventilation area of around 8000mm^2 which helps compliance with Building Regulations.

Controllable Rotating

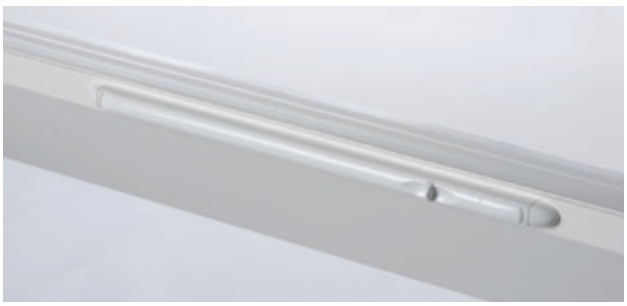
Controllable rotating ventilation units are fully insulated, resulting in superior thermal properties, and offer a greater ventilation area than the trickle vent options. The vents can be fitted to two or four sides of an upstand. The two-sided units will provide a minimum ventilation area of 11,000mm^2 and this improves with the size of the rooflight. The units are tested and certified according to EN 1873: Watertightness.

Certification

Thermadome rooflights, upstands, hinged opening frames and rotating ventilators are all certified as providing adequate resistance to precipitation, according to EN 1873: Weathertightness.



Controllable trickle vent (open)



Controllable trickle vent (closed)

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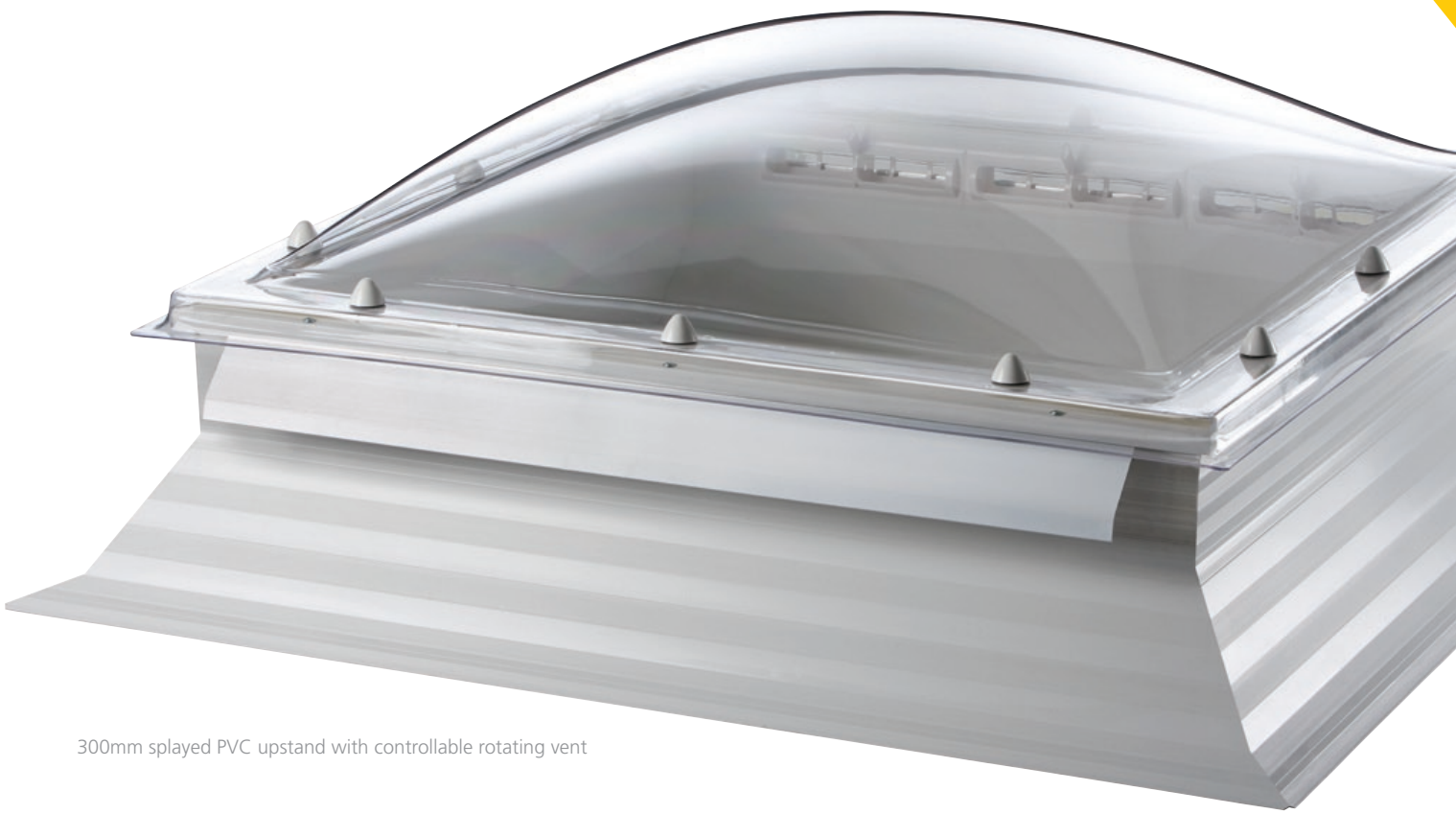
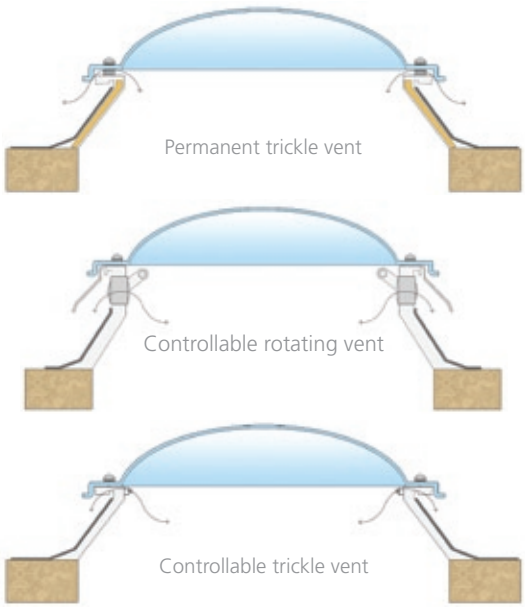


300mm splayed PVC upstand with controllable rotating vent

Ventilation air flow



Controllable rotating vent (open)

Controllable rotating vent (closed)

Domes with ventilated upstand

Hinged opening vents are designed to allow rapid air movement in a room and provide the maximum ventilation area. Thermadome rooflights can be supplied with manual or electric opening hinged vents.

Manual Hinged vent on 150mm splayed PVC upstand (closed)

Manual Hinged vent on 150mm splayed PVC upstand (partially open)

Manual Hinged Spindle Opening

The manual spindle operation can be opened up to 300mm and is operated by a portable winding rod. The manual hinged spindle opening vent is tested and certified according to EN 1873: Watertightness.

Hinged Electric Actuator Opening

The electric actuator operation can be opened to 400 or 600mm and is controlled by a wall-mounted switch.
A control panel which offers additional options for wind, rain and temperature sensors is available separately. Actuators are either 24V DC or 230V AC.

Powered extractor fan ventilation

Where extra natural ventilation is needed in a space Thermadome rooflights can be supplied with Vent-Axia Solo or Centrif Duo centrifugal extract fans. Thermadome upstands are supplied pre-prepared ready to accept the supplied fan.

These high performance extract fans are specifically designed for ventilating internal bathrooms, WCs and other small rooms. They have an extract performance of 85 m^3/hr (24 l/s) or 220 m^3/hr (61 l/s) respectively and can be fitted in one or more sides.
Where greater air movement is required, white PVC lined fan collars with pre-cut apertures are available to enable fitting of larger axial fans (e.g. Vent-Axia T-series). This allows either new high capacity fans to be installed or existing fans to be reinstalled through the rooflight unit.

Electric Hinged vent on 150mm splayed PVC upstand (fully open)

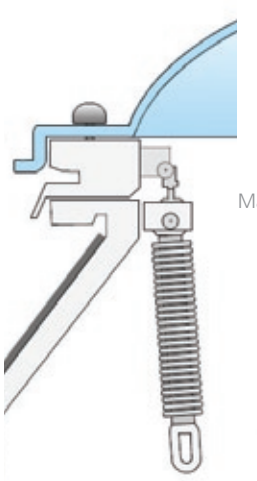
Electric Hinged (chain mechanism)

ThermaDome

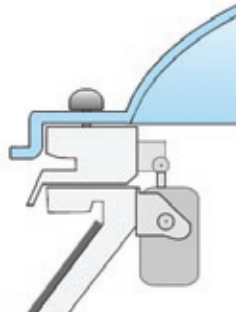
Manual Hinged vent on 150mm splayed PVC upstand (fully open)

Manual Hinged (worm gear mechanism)

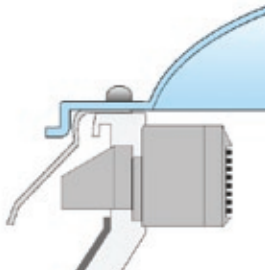
Portable winding rod available in 1.5m, 2m and 3m lengths



Manual hinged vent



Electric hinged vent



Powered extract fan

Vent-Axia Centrif extract fan 220m³/hr (61l/s)

Vent-Axia Solo extract fan 85m³/hr (24l/s)

Access Hatches

ThermaDome

For roof spaces requiring access, Thermadome rooflights can double up as a means of light and access. The hinged access hatch frame opens to 85° which is enough for safe passage. The access hatch frames can be mounted onto an existing upstand or to a Thermadome upstand.

Access hatch on 150mm splayed PVC upstand (closed)

Safety support strut

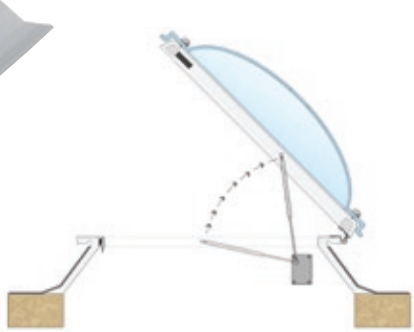
Secure internal locking handle

Access hatch on 150mm splayed PVC upstand (open)

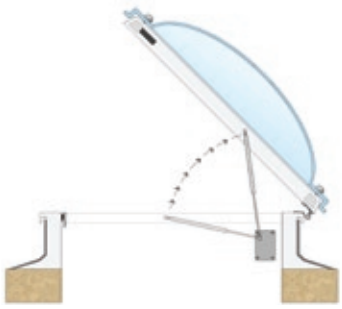
Access hatches are secured from the inside with a locking handle and telescopic struts ensure the rooflight stays open when in use. The telescopic struts are available as assisted gas hydraulic or adjustable friction controlled which can be adjusted to suit the weight of the dome and its location.

Access hatches are only suitable for rooflights no bigger than 1160mm (for square rooflights) and 860 x 1460mm (for rectangular rooflights).

For more advice on opening units with remote electric operation, please call our ***Technical Support Team on 01276 451555.***



Access hatch on 150mm **splayed** PVC upstand



Access hatch on 150mm **vertical** PVC upstand

Therma-View Rooflights

The Therma-View rooflight is the latest and most energy efficient addition to our range. Combining glass and domed ploymer glazing the Therma-View rooflight delivers improved U-values without increasing the solar gain.

Therma-View electric hinged on 150mm splayed PVC upstand, with Remote Control

Therma-View fixed on 150mm splayed PVC upstand

Therma-View fully concealed electric hinge

The units consist of an insulated PVC-framed double-glazed glass which sits on the base of the rooflight, and is topped with a choice of single, double or triple-glazed domed polymer for superior U-values and excellent sound insulation.

For easy installation Therma-View rooflights are fully compatible with our range of Thermadome upstands. For optimal end-user comfort the full range of upstand ventilation options are available: permanent trickle, controllable trickle, controllable rotating, manual hinged and electric actuator opening. Out-of-reach rooflights can be operated by remote control.

Access hatches are only suitable for rooflights no bigger than 1160mm (for square rooflights) and 860 x 1460mm (for rectangular rooflights).

Therma-View fixed on PVC 150mm splayed upstand

SPECIFICATION

- 4mm toughened outer
- 15mm argon filled cavity
- 6.2mm laminated inner
- Light transmission 70%
- Sound reduction 35dB
- Solar heat gain factor 0.49

Typical U-Values for Therma-View with dome

- Single skin – 0.95 W/m²K
- Double skin – 0.82 W/m²K
- Triple skin – 0.72 W/m²K

Smoke Vents/AOVs

Therma-Vent smoke vents/AOVs are designed to reduce smoke build-up, thus providing a safer escape route for occupants and access for fire-fighting personnel. The system can also be utilised to provide natural ventilation.

140° Smoke vent on 300mm splayed PVC upstand (open)

140° Smoke vent on 300mm splayed PVC upstand (closed)

Therma-Vent Smoke Vents/Automatic Opening Vents (AOVs)

A typical smoke ventilation system includes Therma-Vent smoke ventilators (AOVs) located at the highest point of an escape route staircase or at the top of a smoke shaft. Smoke detectors and manual control points are normally located on each floor. The system can be controlled by a Therma-Vent control panel.

In the event of a fire the smoke detectors on the relevant floor instruct the control panel to operate the Therma-Vent AOV creating an upward air flow, venting smoke and toxic gases. The system can be designed to automatically open on receipt of a fire signal, or be controlled by the Therma-Vent control panel on instruction of the fire services. Alternatively, the Therma-Vent AOVs can be linked to the Building Management System (BMS) for complete monitoring.

Building Regulations

The design of natural smoke ventilation systems for buildings is governed by Building Regulation Approved Document B. For residential buildings the basic requirements of Approved Document B state that a smoke ventilation system must be provided if the travel distance between an apartment door and the nearest escape stair is greater than 7.5 metres.

National Domelight Company Therma-Vents can satisfy Building Regulations, including Approved Document B and European Standards EN 12101-2 as part of a designed smoke ventilation system. The responsibility for determining that any building component complies with the relevant regulation rests solely with the customer or specifier.

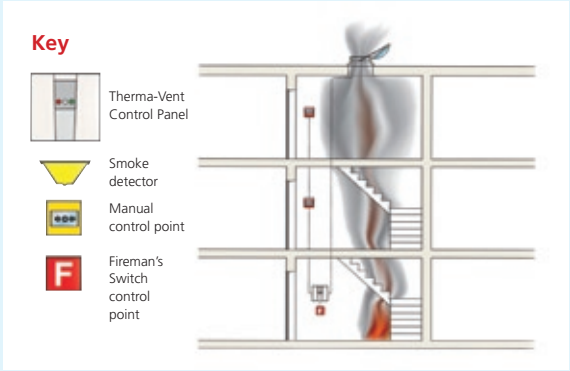
For more advice, please call our ***Technical Support Team on 01276 451555.***

ThermaDome

Therma-Vent control system

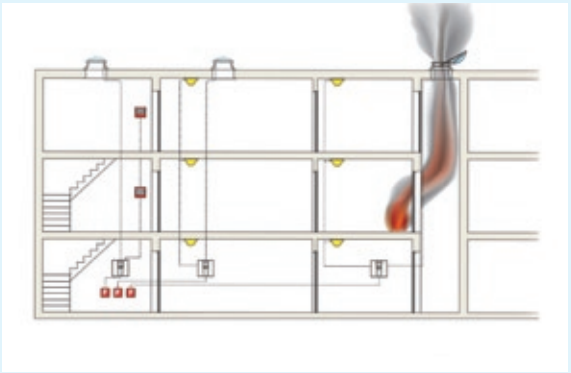
Therma-Vent control panels can be supplied as part of a smoke ventilation system.

Standalone system



The illustration above shows a centralised 'standalone' Therma-Vent Smoke Ventilation system installed in an escape route staircase. Manual control points activate the AOV.

Networked system

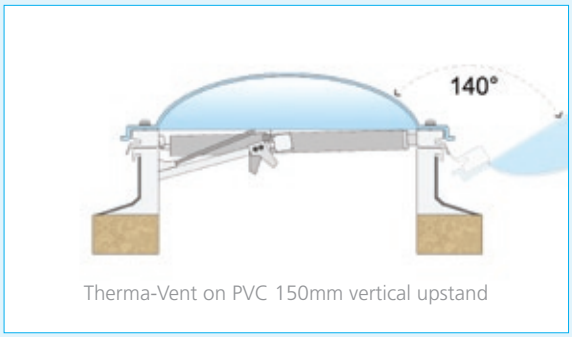


Networked Therma-Vent Smoke Ventilation system installed in living accommodation, escape route staircase and smoke shaft. Smoke detectors and manual control points activate the AOV. Fireman's Switches enable central control.

Accessories include:

- Therma-Vent Optical Smoke Detector
- Therma-Vent Break Glass
- Therma-Vent Fireman's Key Switch

When specified, the Therma-Vent control panel is supplied ready to install with batteries fitted and all internal wiring complete and tested. It can be installed to operate as a simple centralised 'standalone' system, or a larger de-centralised or 'networked' system with additional Therma-Vent control panels.



Therma-Vent on PVC 150mm vertical upstand

Smoke Vent Control Panel

Smoke Detector

Break Glass

Fireman's Switch

Suntube

Suntubes provide an elegant solution to getting daylight from the roof into awkward spaces. The National Domelight Company stock a wide range of suntubes specifically designed to direct natural light into the smallest space. Essentially suntubes work by directing daylight at roof level through reflective internal tubing, into the space where it is diffused at ceiling level.

Why install a Thermadome suntube?

- The compact units make suntubes perfect for bringing natural light into any area that is too small to install traditional rooflights, such as a dark hallway, corridor or toilet
- They effectively act as natural spotlights and are ideal for providing task lighting
- Suntubes can be easily installed into new or existing roofs, with minimal disturbance to roof and ceiling, and fit most types of flat and pitched roof
- Suntubes are available with passive ventilation options which can help improve Building Regulation compliance

How much light does a suntube transmit?

UK tests show that a 3m flexible suntube, on a 550mm diameter unit, can achieve anything up to 14 times the equivalent of a 100 watt bulb (1500 lux compared with 105 lux). The rigid suntube reflects up to 98% on its inner surface to provide up to 20 times more light than a 100 watt bulb (2200 lux compared with 105 lux).

Applications and limitations

As specific applications and external light conditions are beyond the control of the National Domelight Company we can make no guarantees on specific levels of transmitted light. However, for maximum daylight output, we recommend that the suntube is placed on a south facing roof slope, at the highest point, and away from any overshadowing buildings and trees.

Rigid suntubes are best for longer tube lengths while flexible suntubes are more suitable for shorter runs and are easier to install. In addition suntubes should be installed to give the straightest run from roof to ceiling level.

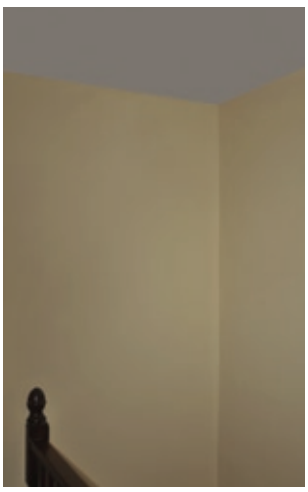
Size

The standard suntube kit accommodates:

- Rigid Tube System: up to 1.0m (0.7m for flat roof kits)
- Flexible Tube System: up to 3.0m

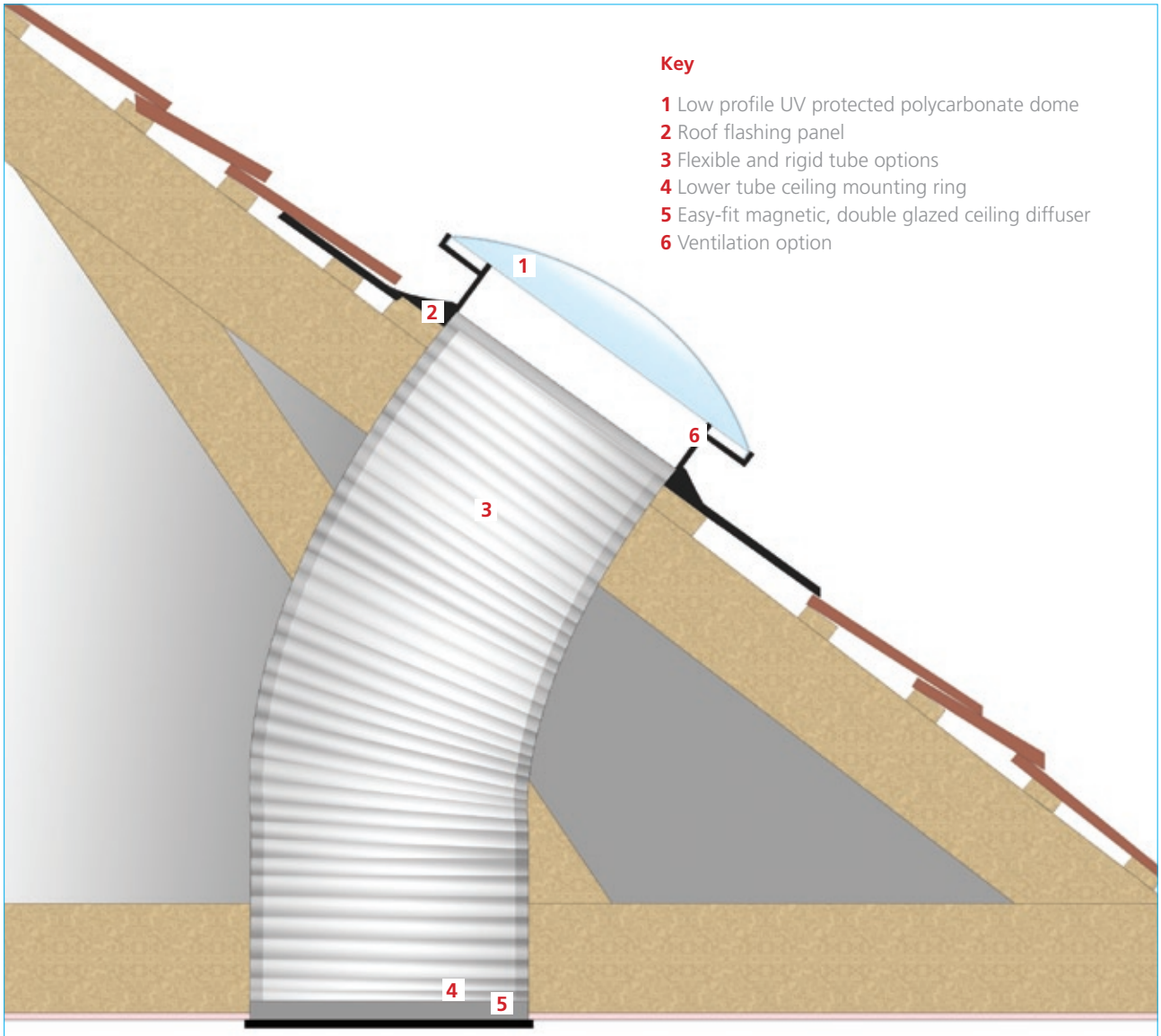
Rigid extension tubing is available in 625mm and 1250mm lengths and is suitable for extending both the Flexible and Rigid Tube Systems.

Flexible extension tubing is also available. For more advice on the best combination for your application, please call our ***Technical Support Team on 01276 451555.***



Before installation

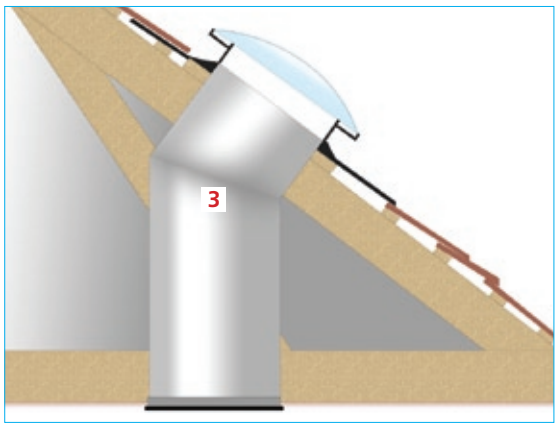
After installation

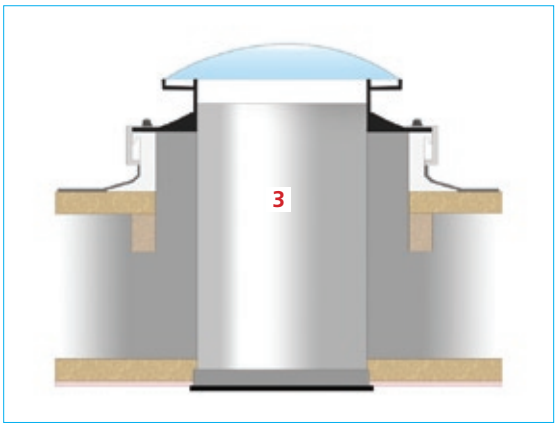


Key

1 Low profile UV protected polycarbonate dome
2 Roof flashing panel
3 Flexible and rigid tube options
4 Lower tube ceiling mounting ring
5 Easy-fit magnetic, double glazed ceiling diffuser
6 Ventilation option

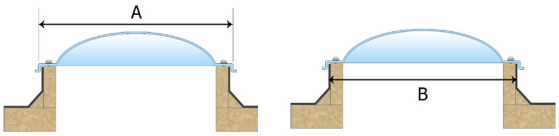
Suntube can be supplied with a rigid tube and can be installed on both pitched and flat roofs.

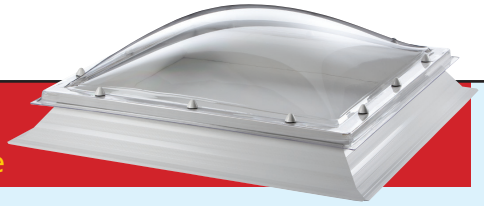




Thermadome Rooflight Sizes

Thermadome rooflights come in a wide variety of sizes. This handy chart shows a selection of our most popular sizes however **over 70 further sizes are also available to order**.





Square

Available as
- Dome and Pyramid
- Fixed Upstand
- Vented Upstand
- Access Hatch
- A.O.V.

Rectangle

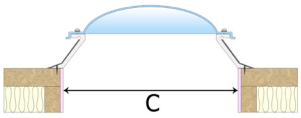
Available as
- Dome and Trapezoid
- Fixed Upstand
- Vented Upstand
- Access Hatch
- A.O.V.

Circular

Available as
- Dome only
- Fixed GRP Upstand
- Vented GRP Upstand – Manual Hinged

SIZE REF	Dimension A (mm) Overall dome size (A)	Dimension B (mm) Overall builders kerb size B (plus 30mm max for waterproofing)	Pyramid Available
TD-S1	560 x 560	500 x 500	△
TD- S2	660 x 660	600 x 600	△
TD-S3	710 x 710	650 x 650	
TD-S4	760 x 760	700 x 700	△
TD-S5	860 x 860	800 x 800	△
TD-S6	910 x 910	850 x 850	△
TD-S7	960 x 960	900 x 900	△
TD-S8	1060 x 1060	1000 x 1000	△
TD-S9	1160 x 1160	1100 x 1100	△
TD-S10	1210 x 1210	1150 x 1150	
TD-S10A	1260 x 1260	1200 x 1200	△
TD-S11	1360 x 1360	1300 x 1300	△
TD-S12	1460 x 1460	1400 x 1400	△
TD-S13	1560 x 1560	1500 x 1500	△
TD-S15A	1860 x 1860	1800 x 1800	△
TD-R3	560 x 860	500 x 800	△
TD-R3A	560 x 1160	500 x 1100	△
TD-R4	660 x 960	600 x 900	△
TD-R4A	660 x 1260	600 x 1200	△
TD-R4B	660 x 1860	600 x 1800	
TD-R5	760 x 1060	700 x 1000	△
TD-R6	760 x 1360	700 x 1300	△
TD-R7	860 x 1160	800 x 1100	△
TD-R7A	860 x 1460	800 x 1400	
TD-R7B	860 x 1760	800 x 1700	
TD-R10A	960 x 1260	900 x 1200	△
TD-R11	960 x 1460	900 x 1400	△
TD-R11A	960 x 1860	900 x 1800	
TD-R16	1060 x 1360	1000 x 1300	
TD-R16A	1060 x 1660	1000 x 1600	
TD-R17	1160 x 1460	1100 x 1400	△
TD-R17A	1160 x 1660	1100 x 1600	
TD-R18	1160 x 1760	1100 x 1700	△
TD-R20	1160 x 2360	1100 x 2300	△
TD-R22B	1260 x 1860	1200 x 1800	△
TD-R22C	1260 x 2460	1200 x 2400	
TD-C1	560 dia	500 dia	
TD-C2	660 dia	600 dia	
TD-C3	760 dia	700 dia	
TD-C4	860 dia	800 dia	
TD-C5	960 dia	900 dia	
TD-C6	1060 dia	1000 dia	
TD-C7	1160 dia	1100 dia	
TD-C8	1260 dia	1200 dia	

ThermaDome



Over 70 further sizes are also available to order

Domes			Dimension C (mm)	Fixed Upstands		Vented Upstands			Access Hatch
Polycarbonate single skin	Polycarbonate double skin	Polycarbonate triple skin	Roof Opening size of PVC Kerb - C	150mm splayed PVC	300mm splayed PVC	Trickle Vent 150/ 300mm high	Rotary Vent 300mm high	Manual Hinged 150/300mm high	Access Hatch 150/300mm high
●	●	●	600 x 600	●	●	●	●	●	
●	●	●	700 x 700	●	●	●	●	●	●
●	●	●	750 x 750	●	●	●	●	●	●
●	●	●	800 x 800	●	●	●	●	●	●
●	●	●	900 x 900	●	●	●	●	●	●
●	●	●	950 x 950	●	●	●	●	●	●
●	●	●	1000 x 1000	●	●	●	●	●	●
●	●	●	1100 x 1100	●	●	●	●	●	●
●	●	●	1200 x 1200	●	●	●	●	●	●
●	●	●	1250 x 1250	●	●	●	●	●	●
●	●	●	1300 x 1300	●	●	●	●	●	●
●	●	●	1400 x 1400	●	●	●	●	●	
●	●	●	1500 x 1500	●	●	●	●	●	
●	●	●	1600 x 1600	●	●	●	●	●	
●	●	●	1900 x 1900	●	●	●	●	●	
●	●	●	600 x 900	●	●	●	●	●	●
●	●	●	600 x 1200	●	●	●	●	●	●
●	●	●	700 x 1000	●	●	●	●	●	●
●	●	●	700 x 1300	●	●	●	●	●	●
●	●	●	700 x 1900	●	●	●	●	●	●
●	●	●	800 x 1100	●	●	●	●	●	●
●	●	●	800 x 1400	●	●	●	●	●	●
●	●	●	900 x 1200	●	●	●	●	●	●
●	●	●	900 x 1500	●	●	●	●	●	●
●	●	●	900 x 1800	●	●	●	●	●	●
●	●	●	1000 x 1300	●	●	●	●	●	●
●	●	●	1000 x 1500	●	●	●	●	●	●
●	●	●	1000 x 1900	●	●	●	●	●	●
●	●	●	1100 x 1400	●	●	●	●	●	●
●	●	●	1100 x 1700	●	●	●	●	●	
●	●	●	1200 x 1500	●	●	●	●	●	
●	●	●	1200 x 1700	●	●	●	●	●	
●	●	●	1200 x 1800	●	●	●	●	●	
●	●	●	1200 x 2400	●	●	●	●	●	
●	●	●	1300 x 1900	●	●	●	●	●	
●	●	●	1300 x 2500	●	●	●	●	●	
●	●	●	650 dia	● □				● □	
●	●	●	750 dia	● □				● □	
●	●	●	850 dia	● □				● □	
●	●	●	950 dia	● □				● □	
●	●	●	1050 dia	● □				● □	
●	●	●	1150 dia	● □				● □	
●	●	●	1250 dia	● □				● □	
●	●	●	1350 dia	● □				● □	

Key: ● = Ex-stock available in 1-2 working days. ● = Special Order and may take up to 2-3 weeks delivery. □ = Only available in GRP.

Technical Services

The National Domelight Company sales team is always available to assist you, from your initial enquiry through to after sales support. This includes help with specification writing, site surveys, budget costings, and fully detailed quotations.

Health & Safety

(HSE) Health and Safety in Roof Work states that where rooflights are required, designers should consider:

- Specifying rooflights that are non-fragile
- Fitting rooflights designed to project above the plane of the roof and which cannot be walked on (these reduce the risk but they should be capable of withstanding a person falling onto them)
- Protecting rooflight, e.g. by means of mesh or grids fitted below or above the rooflight
- Specifying rooflights with a design life that matches that of the roof, taking account of the likely deterioration due to ultraviolet exposure, environmental pollution and internal and external building environment

Non-fragile rooflights

Thermadome rooflights are out of plane rooflights and provided they are specified with polycarbonate glazing can be deemed 'non-fragile'.

- Polycarbonate Thermadomes have been independently tested according to EN 1873 2005 [E] to an energy of 1200J and to ACR [M]: 001:2005 and can be classified as Class B 'Non-Fragile'
- National Domelight Company polycarbonate Thermadome rooflights have been awarded BBA Certification or are manufactured to ISO 9001
- National Domelight Company offers a post-forming warranty backed by the sheet manufacturer

Handling & Storage

While all Thermadome rooflights and associated products are suitably packaged to avoid damage care should be exercised when handling. For moving larger items, two or more people may be needed. All products should be stored on edge in flat dry conditions.

Condensation

Condensation occurs where warm moist air meets cold surfaces. As warm air rises, the risk of condensation forming at rooflight level is relatively greater than at a lower level. The risk can be minimised by specifying triple skin Thermadome and Therma kerb insulated upstands - the provision of ventilation may also assist. However, because temperature and humidity levels are clearly beyond our control, no guarantee can be given against the formation of condensation.
Condensation between the skins can also occur when the room below has high humidity levels, for example during construction from new plaster or paintwork. Polycarbonate is hygroscopic and allows water molecules to filter through – the water pressure forces its way through the lower skin and condenses inside the cavity. However, once the humidity level in the room is restored to normal this condensation dissipates through the breathable seals.

Installation

All Thermadome rooflights are supplied ready assembled and pre-drilled complete with security screw bolts and factory applied sealing tape where applicable, and are delivered to site in protective packaging. Full instructions and fixings are included with all products, and should be carefully studied prior to installation.

Guarantees

All Thermadome rooflights, when installed on Therma kerbs in accordance with manufacturer's instructions, are guaranteed against the effects of defective design, materials or construction for a period of ten years from date of supply by National Domelight Company. Furthermore, the glazing element of all Thermadomes is warranted against discolouration for ten years subject to certain conditions. A 20 year 'special projects' guarantee is also available. Further details are available upon request. Thermadome rooflights have an expected life of at least 25 years, which would normally exceed the life of the roof waterproofing materials. All other items such as Therma kerbs, ventilation systems, electrical components and other accessories are guaranteed for 12 months from date of supply by National Domelight Company.

NATIONAL
DOMELIGHT COMPANY

more choice, better prices.

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EN1873