Uniclass L414	EPIC D15
CISfB	
(37.4)	Х



more choice, better prices.



ThermaLight | Glass 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



Glass & Glazing Options

A look at the various options available to help you get the best from your rooflight.



Measuring Guide

To help you get the right size rooflight for your project.



Roof Lanterns & Pyramids

Pyramid Rooflights

11

Clean architectural lines help flood your home extension or orangery with natural light, creating a better and healthier living space.



Sliding Rooflights

The Thermalight Sliding rooflight helps bring the outside in, enabling unobstructed ventilation and providing access to the roof when required.



Fixed Rooflights

Circular13Multi-Part13Providing unrestricted sky views with clean
flush glazing.



Walk-On Rooflights

Ideal for roof terraces where the space below needs access to natural light. These units deliver the same high quality performance as the standard Thermalight rooflights.



Manual/Electric Hinged

Designed to provide ventilation to rooms whilst maintaining the highest level of security. They have flush glazing and minimal framework for optimal daylight.



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.

Glass & Glazing Options

The operational case for glass rooflights is impressive: superb aesthetics, superior structural performance and thermal properties, making it the ideal choice for most rooflight or skylight applications.

Advances in glass manufacturing techniques have led to the development of a number of glass products with different properties, many of which are available with a Thermalight rooflight: from active solar control, high impact resistance, to low maintenance glass.



Double-Glazed as standard

All Thermalight units are double-glazed for improved heat insulation and energy conservation with the option to further increase the specification to triple glazing if required.

Depending on the glass area of your chosen Thermalight rooflight the 2 most common specification of glass used are:

Rooflights below 1.2m²

4mm thick toughened outer pane, a 4mm toughened low E inner separated by a 20mm argon filled cavity with warm edge spacer.

Rooflights above 1.2m²

6mm thick toughened outer pane, a 6mm toughened low E inner separated by a 16mm argon filled cavity with warm edge spacer.

How this works: air is a poor conductor of heat and therefore reduces the heat transfer between the two panes of glass. The result is that this helps to keep more heat in during the winter, and out during those hot summer days. The panes are separated by a spacer bar and the perimeter of the unit is sealed resulting in a hermetically sealed unit.

What is Low-E?

Low Emissivity (Low-E) glass has a special coating normally applied to one side, designed to reflect heat back into a room and thus reduces heat loss. The extent to which Low-E glass reduces heat loss is measured by its U-value; the lower the U-value the better the thermal insulation.

What is Argon gas? – a colourless, odourless, non-flammable inert gas that is more dense than air and consequently acts as a more efficient thermal buffer – improving the centre pane U-value by as much as 30%.

Solar Control Glass: reduces solar heat gain whilst offering high levels of natural light. Coated with a transparent metal oxide film on one side, the film works by reflecting and absorbing the heat entering the building from the sun. The solar gain (g-value) of the glass determines the amount of solar heat or radiation allowed to pass through, and consequently the amount that will be blocked.

The lower the g-value the less heat will pass through the glass and into the internal space, keeping it cooler on bright sunnier days.

Tinted Glazing Options

When specifying the glazing element of your Thermalight rooflight a popular option is to incorporate a body tinted glass. These tinted options are available in either blue, grey, bronze or green and are principally used to reduce the solar radiation that enters a building.

The tinting process involves adding small amounts of various metal oxides to the glass composition. These small additions to the glass, colour the glass but do not affect the basic properties of the glass except for reducing its solar energy transmission.

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

Double-glazed unit



- Outer Pane: Clear toughened glass
- Inner Pane: Low-E Glass, laminated with unique heat transmittance/reflectance properties
- Argon Filled Cavity: Acts as a thermal insulator, more efficient than a conventional air-filled cavity
- Space Bar: Holds the panes apart to create the insulating cavity

Glass Properties

Glass Type —	Rooflights below 1.2m ²			Rooflights above 1.2m ²			
	(Clear)	(Grey Tint)	(Blue Tint)	(Clear)	(Grey Tint)	(Blue Tint)	(Solar Control)
Toughened Outer Pane	4mm	4mm	4mm	6mm	6mm	6mm	6mm
Argon Filled Cavity with warm edge spacer	20mm	20mm	20mm	16mm	16mm	16mm	16mm
Toughened Inner Pane	4mm	4mm	4mm	6mm	6mm	6mm	6mm
G-Value (Solar Factor)	0.63	0.49	0.41	0.61	0.35	0.33	0.33
Light Transmission %	80	50	57	79	38	47	47
Centre Pane U-Value (W/m ² K)	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Weight (Kg/m²)	20	20	20	30	30	30	30
Effect on Room Temp.	Warmest	Warm	Mild	Warmest	Warm	Mild	Cool

Measuring Guide

We recommend you use the following measuring guide to assist you in working out the correct measurements for your rooflight. The National Domelight team will be happy to help you apply the results to a full specification.



Kerb Construction

Type of rooflight	Minimum recommended structural kerb size
Roof Lantern	75mm
Pyramid	75mm
Fixed (Square, Rectangular)	75mm
Fixed (Circular)	75mm
Multi-Part	75mm
Walk-On	75mm
Manual/Electric Hinged	75mm
Sliding	100mm





Builders kerb construction for flat glass rooflights.

A pitch for flat glass rooflights of 10° is recommended* to aid water run off and help prevent water ponding on the glazing. *Excluding Walk-On rooflights where a 1° pitch is recommended.

Please note a pitch does not need to be included on builders kerbs for roof lantern or pyramid rooflights.

Other information

For more detailed information, please refer to the relevant pages in this brochure, our website or give our Sales Team a call.



Roof Lanterns & Pyramids

Thermalight Roof Lanterns allow you to flood your home extension or orangery with natural light whilst providing unrestricted sky views, creating a better and healthier living space.



Roof Lantern

Fabricated using the latest silicone glazing techniques removes the need for an internal framework thus creating a stylish frameless design. The unit's 40° pitch guarantees a heavy concentration of light is delivered into the home.

Thermalight Roof Lanterns are double glazed in a clear toughened safety glass as standard or can be supplied with blue, bronze or tinted glass. Solar controlled glass designed to minimise solar gain whilst maximising light transmittance is also available. *For more information refer to 'Glass & Glazing Options' pages 6-7.*

The double-glazed units are enveloped within the framework for added protection and to safeguard against possible breakage. Thermalight's low-profile design – the top surface of the doubleglazed unit sitting flush with the external frame – means that rainwater will drain away with ease resulting in a naturally low maintenance product.

The extruded thermally broken aluminium frame is dual coloured as standard, and supplied powder coated to RAL 7015 (Grey Matt Outer) and RAL9910 (White Matt Inner). External hip and ridge cappings are powder coated to RAL 7015 as standard but other RAL colour options are available upon request.

All Thermalight Roof Lanterns conform to BS5516-2:2004 up to a maximum height of 13 metres above floor level.





Thermalight Roof Lantern

Sizes

• Minimum of 700mm x 1100mm to a maximum of 2000mm x 5800mm

Key Features

- Minimum framework/Maximum Daylight
- High thermal performance
- 40° angle fully-enclosed glass unit with silicone joints
- Dual colour as standard
- Thermally broken construction
- 10 year Guarantee

Thermalight Pyramid rooflights are available for square roof openings and offer a real wow factor to any project due to the minimum framework design.

Pyramid

The maximum span available for the Thermalight Pyramid range is **2000mm x 2000mm**, anything larger will be bespoke and require extra glazed sections. All products are dual coloured as standard so as to match both internal and external building finishes: RAL7015 Grey Matt Outer / RAL9010 White Matt Inner.

Sizes

• Minimum of 700mm x 700mm to a maximum of 2000mm x 2000mm

Key Features

- Minimum framework/Maximum Daylight
- Clear low 'E' coating glass as standard
- Centre pane U-Value of 1.1W/m²K
- 40° pitch angle, fully enclosed glass unit with silicone joints
- High thermal performance
- Thermally broken construction
- 10 year Guarantee

All Thermalight Pyramid rooflights conform to BS5516-2:2004 up to a maximum height of 13 metres above floor level.



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

Thermalight Pyramid

Fixed Rooflights

The Fixed Thermalight unit is specifically designed with no visible framework to ensure that the maximum amount of daylight floods into the space. The use of flush glazing external metalwork also means that the unit does not suffer from the 'water-pooling' effect experienced by some other products.

Fixed

The units combine a high performance, silicone-bonded doubleglazed casement, with a polyester powder coated aluminium framework: RAL7015 Grey Matt Outer or RAL9005 Black Matt Outer, and are suitable for both pitched and flat roofs.

The Fixed Thermalight unit is easy to install and is supplied with a unique internal perimeter gasket that allows the rooflight to be positioned and screwed externally onto the builder's kerb and a matching cover clip is then applied to conceal the fixings - no need for silicone to be applied on-site.





Fixed Thermalight

Sizes

• Minimum of 300mm x 300mm to a maximum of 1800mm x 3000mm



Bespoke sizes available, please contact our sales team to request a quote. All Thermalight fixed rooflights conform to BS5516-2:2004 up to a maximum height of 13 metres above floor level.

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

For big spaces with large expanses of glazing, the contemporary styled Thermalight Multi-Part system is the perfect solution.

Circular

Circular-shaped fixed rooflights are also available, supplied fully assembled and are very easy to install. The framework is manufactured from an extruded aluminium profile which is then curved using a rolling machine, enabling us to produce a wide range of sizes. The framework is supplied powder coated to RAL9005 Black Matt as standard. Other RAL colour options are available upon request.



Multi-Part

As a low profile, structurally silicone glazed unit, it is a fully watertight rooflight making it ideal for rooflights for use on flat roof areas which require a longer run of roof lighting than can be accommodated in a single span.

Thermalight Multi-Part is based upon a fixed rooflight design. As a modular system, it's fabricated in sections with silicone joints between sections and can be tailor-made to virtually any length. The extruded aluminium framework is supplied powder coated to RAL9005 Black Matt or RAL7015 Grey Matt as standard. Other RAL colour options are available upon request.



Sizes

Maximum span 1200mm

Key Features – Fixed, Circular and Multi-Part

- Low Profile
- No internally visible framework (excluding Multi-Part)
- Clear low 'E' coated glass as standard
- Centre pane U-Value of 1.1W/m²K
- Safety glass to both panes
- · Easy clean and low maintenance
- High thermal performance
- Stock Sizes available
- Bespoke sizes to order
- 10 year Guarantee



Circular Thermalight

Sizes

Minimum of 1000mm diameter to a maximum of 2000mm diameter

Walk-On Rooflights ThermaLight

The Thermalight Walk-On rooflight is ideal for roof terraces where the space below needs access to natural light. The units have the same characteristics, and deliver the same high quality performance as the standard Thermalight rooflights.

The Thermalight Walk-On rooflight is a low profile system, designed to be flush with surrounding flooring – first fit the rooflight to your existing or new timber builders kerb/upstand, then the surrounding flooring can be raised level to ensure a flush finish with the glazing.

Walk-On rooflights are typically used on roof terraces with decking bringing the benefits of light to the room below whilst providing a real wow factor to any roof terrace.

Ideal for all residential applications, the units meet the imposed load requirements of BS EN 1991 subcategories A1, A2, A3 and A5, i.e. capable of withstanding a uniform distributed load (UDL) of 2.5KN/m² and a concentrated load of 2.0KN.

The extruded aluminium framework is supplied powder coated to RAL9005 Black Matt or RAL7015 Grey Matt as standard. Other RAL colour options are available upon request.

Avante Garde or Sandblasted anti-slip external glass treatments to BS7976-2 are available upon request for rooflights that may be subject to regular pedestrian traffic.





Sizes

• Minimum of 300mm x 300mm to a maximum of 1000mm x 2000mm

Key Features

- Low Profile
- Simple installation
- Easy clean and low maintenance
- Bespoke sizes to order
- Stock Sizes available
- High thermal performance
- 10 year Guarantee



Thermalight Walk-On

Manual/Electric Hinged

Both manual and electric hinged rooflights are designed to provide ventilation to rooms whilst maintaining the highest level of security. They have flush glazing, minimal framework for optimal daylight.

The Manual Hinged rooflight can be opened using a chrome worm gear spindle and portable operating rod. Ideal for areas with above average humidity such as kitchens and bathrooms where manual control is required.

The Electric Hinged rooflight's electric opening mechanism sits unobtrusively within the aluminium framework and is controlled by a touch sensitive switch with an in-built transformer, simplifying the wiring process. The switch fits into a standard double-gang back box and optional extras include: rain sensor, temperature sensor, and a remote control unit.

The units are easy to install and are supplied with a unique internal perimeter gasket that allows the rooflight to be positioned and screwed externally onto the builder's kerb and a matching cover clip is then applied to conceal the fixing – no need for silicone to be applied on-site. A qualified electrician will be required to connect the motor and transformer switch. Wiring diagrams/ instructions are supplied with all Thermalight electrically opening rooflights.

The unit's extruded thermally broken aluminium frame is dual coloured as standard, and supplied powder coated to RAL 7015 (Grey Matt Outer) and RAL9910 (White Matt Inner). Other RAL colour options are available upon request.

Sizes

- Manual Min of 700 x 700mm/Max of 1100 x 1700mm
- Electric Min of 800 x 700mm/Max of 3000 x 1000mm

Key Features

- Bespoke sizes are available
- Minimum framework/Maximum Daylight
- Flush glazed no water ponding
- Thermally broken construction
- Clear low 'E' coated glass as standard
- Centre pane U-Value of 1.1W/m²K
- Dual colour capabilities as standard
- 10 year Guarantee

Optional extras

Remote control • Rain sensors • Temperature sensors





Thermalight Electric Hinged rooflight

Sliding Rooflights = ThermaLight

The Thermalight Sliding rooflight helps bring the outside in, for true unobstructed light and ventilation when the unit is in the open position.

The unit's in-built telescopic sliding mechanism has been designed so that the rooflight can support its own weight without the need of roof tracks or additional obtrusive supports.

The opening mechanism is a rack and pinion drive with a 24V electric motor that is neatly concealed within the framework to ensure optimum daylight into the space below. The motor is controlled using a touch sensitive switch that allows precise movement of the sliding rooflight. Optional extras include: rain sensor, temperature sensor, remote control units, and a safety access control (PIR) sensor.

In the event of a power failure whilst the rooflight is in the open position, a manual override facility, including a key, can be used to disengage the motor allowing the rooflight to be opened and closed manually.

The units are easy to install and are supplied with a unique internal perimeter gasket that allows the rooflight to be positioned and screwed externally onto the builder's kerb and a matching cover clip is then applied to conceal the fixing – no need for silicone to be applied on-site. A qualified electrician will be required to connect the motor and transformer switch. Wiring diagrams/instructions are supplied with all Thermalight electrically opening rooflights.

The unit's extruded thermally broken aluminium frame is dual coloured as standard, and supplied powder coated to RAL 7015 (Grey Matt Outer) and RAL9910 (White Matt Inner). Other RAL colour options are available upon request.

Sizes

 Maximum size currently available is 2000mm x 2000mm

Key Features

- Telescopic opening (no tracks)
- Concealed mechanisms
- Creep sealing
- Bespoke Sizes are available
- Minimum framework/Maximum Daylight
- Flush glazed no water ponding
- Thermally broken construction
- · Clear low 'E' coated safety glass as standard
- Centre pane U-Value of 1.1W/m²K
- Dual colour capabilities as standard
- 10 year Guarantee





Thermalight Sliding Rooflight

Why do we need natural sunlight?

There is no denying that natural daylight in a room can make all the difference to its occupants. Rooflights and Skylights 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 impact than artificial lighting.

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)
- Security enhancement, 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.

Fire Rating

When used in rooflights, Building Regulations Approved Document "B" (Fire Safety) rates unwired glass at least 4mm thick as having an AA designation (national classification) or, B_{ROOF} (t4) (european classification).

Handling & Storage

While all Thermalight rooflights and associated products are suitably packaged to avoid damage, care should be exercised when handling. For moving larger items, two or more people or specialised lifting machinery may be needed. All products should be stored and covered to protect against weather and sunlight.

Condensation

The formation of condensation on the inner surface of a rooflight and/or its upstand, is dependent on numerous environmental conditions such as humidity, internal and external ambient temperature and/or natural/mechanical air movement.

Condensation will occur where a surface at a lower temperature than the surrounding air interfaces with high humidity conditions. Condensation will therefore be worse during the winter months where temperatures drop and air humidity through rainfall substantially increases.

If the humidity of the air at source i.e. inside the building, cannot be reduced or removed by addressing the moisture producing event, then the risk of condensation forming on/in the unit will increase substantially.

Condensation may therefore form with there being no design fault whatsoever in the rooflight, and which should dissipate naturally when the ambient temperature increases and/or the moisture developing activity decreases.

Where rooflights are to be installed in dwellings and other high humidity areas National Domelight Company will only recommend double or triple glazing. It is also recommended that ventilation is either added or increased in any affected areas to reduce humidity levels.

Environmental conditions are beyond the control of National Domelight Company and consequently, we are therefore unable to give absolute guarantees on the non-occurrence of condensation on ANY Thermalight products.

Installation

All Thermalight rooflights are supplied ready assembled where applicable, and are delivered to site in protective packaging. Full instructions and fixings (for timber substructure) are included with all products, and should be carefully studied prior to installation.

General Cleaning & Maintenance

The appearance, durability and performance of Thermalight products, regardless of the material from which they are made, are always dependent on regular cleaning and maintenance. Cleaning therefore contributes considerably to the effective life of the system. All Thermalight products should be cleaned regularly and at time intervals depending upon the accumulation of dirt. We should expect a minimum regime of 6 monthly clean and maintenance checks.

Those engaged on maintenance or cleaning work should use suitable equipment (see BS8213). Experienced operatives should be employed particularly in respect to rooflight / high level cleaning. Note under no circumstance should you attempt to walk on or load Thermalight rooflight products regardless of their fragility status.

The cleaning process is generally uncomplicated, consisting of washing down with warm water and mild detergent. Abrasive, caustic and chemical treatments are unnecessary, and may actually cause damage to the exposed surfaces of our products. A soft cloth or brush may be used to remove persistent contamination. However, care should be taken to avoid rubbing dirt into the system components. In the case of paint or bitumen splashes, white spirit applied with a soft cloth may be used with care, we would recommend a small area is tested first but do not allow white spirit to run onto unaffected areas. A final rinse with clean water will complete the process.

The product should be checked for movement on the kerb, if movement is found remove fixing snap in cover clip and check tightness of screws.

Important Note:

An annual review of perimeter silicone should be made to confirm that the perimeter seal between the glass and frame is intact. If the seal is not intact i.e., if this seal has been removed or degraded, the area should be cleaned and dried and re-sealed with Dow Corning 791 silicone sealant at the earliest opportunity. If water sits against the edge of a double glazed unit because the outer seal is no longer intact, The National Domelight Company will accept no responsibility of the glass unit breakdown as a result. Please be aware, although rare, it has been known for birds to peck away at silicone.

An annual review of the glass should be made and in the very rare event there appears to be any signs of glass movement, please contact The National Domelight Company at the earliest opportunity.

Guarantees

All Thermalight rooflights when installed on Thermalight kerbs and adaptor kerbs and in accordance with the Manufacturer's instructions are guaranteed to be fit for the purpose that it was designed, for a period of 10 years from the date of supply by National Domelight Company. Any removal, re-fitting or alteration to the rooflights after initial installation must be carried out in the presence of Thermalight personnel or their representatives for this guarantee to remain effective. The Company warrants the product to be free from defects and workmanship for a period of ten years, excluding electric or electronic components or moving parts which are covered for one year.

The warranty commences from the date of supply by The National Domelight Company and is not transferrable. If there is a defect with the product covered by the warranty, the company will repair or if repair is not possible, replace the component or product free of charge (including delivery and/or installation, if these options were taken with the original Order). Replacement of components under the warranty does not affect the terms of the warranty.

The warranty claim must be made as soon as reasonably possible after the defect becomes apparent. To report a warranty claim, please contact the Company's customer service department for a warranty claim form and then return with proof of purchase.

When the claim form has been validated, the company will send a technician to assess the claim and the company will meet all reasonable travel costs in main land United Kingdom incurred by its technicians to and from the destination where the product is located. The warranty will not cover the cost of the Company's technicians and their travel expenses if there is no defect found with the product, this cost will be charged at the current daily rate.

In no event will the Company be liable for more than the amount of purchase price, not to exceed the current list price of the product, excluding tax and handling.



more choice, better prices.

Pyramid House 52 Guildford Road Lightwater Surrey GU18 5SD

Tel: 01276 451555 Fax: 01276 450610 Email: info@nationaldomes.com www.nationaldomes.com





Important notes: The responsibility for determining that any building component complies with the relevant Building Regulations rests solely with the client or specifier. The National Donelight Company policy is one of continuous product improvement: accordingly we reserve the right to alter specifications without notice at any time.

