

COX NATURAL LIGHT
SOLUTIONS

Cox Natural Light Products

Glazed Rooflights

Suntube

Roof Windows





The leading established thermoplastic rooflight supplier in the UK.

Cox Building Products offer natural light and ventilation solutions through leading brands that are recognised as industry benchmark standards in product, quality and service. Cox Natural Light Solutions include: Coxdome, Coxspan, Cox Suntube, and Cox Windows.

We have a passion for what we do – and we believe you will see this in our products, our service and our team. Our market leadership position is sustained by our commitment to 5 driving principles:

Specialist among specialists

A developer of natural light solutions is who we are, and what we do. We strive to meet the expectations of today's market, and are committed to working in partnership with experts in the fields of R&D and production.

Partnership is Ruling

We recognise that the relationship we have with our customers is everything. It's our understanding of their needs that drives new product innovations and the inspiration to achieve advances in production techniques.

Quality without compromise at a fair price

The foundation stone of a Cox Natural Light Solution – you deserve the best!

Sustainability & Environment

We 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/technical advances available in today's market.



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COXDOME 2000

TECHNICALLY ADVANCED THROUGHOUT

COXDOMES

Glazing

Double/triple skin glazing is standard to every Coxdome 2000. A minimum air gap is incorporated over the entire area between all glazing surfaces.

Dome Frame

The Coxdome 2000 dome frame is manufactured from white, extruded PVC section. This incorporates a series of air pockets, thereby constituting an excellent thermal barrier.

Seals

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

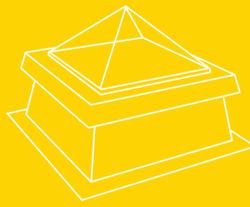
Ventilation

For areas where ventilation is required, manually or electrically operated hinged ventilation units are available.

Upstand

Manufactured from a foamed modified PVC, the Coxdome 2000 upstand allows only minimal heat transmission and requires no additional insulation. It is compatible with all traditional roof finishes.





THE ULTIMATE ROOFLIGHT SYSTEM

Coxdome 2000 is the most technologically advanced and aesthetically pleasing rooflight system of its type currently available in the UK.

Its all-plastic construction is the result of years of research and development, providing complete thermal efficiency and minimising the risk of condensation. It can be confidently specified for virtually any rooflighting application, particularly commercial and domestic buildings.

The new Coxdome 2000 Cool & Clear rooflight is THE innovating solution for heat resistance. The rooflight combines as well as excellent heat resistance an outstanding light transmission in one. So with the new Cox Cool & Clear you can beat the heat without loss of light or compromise on rooflight area.

- ◆ Square or rectangular domes and pyramids in a wide range of sizes
- ◆ Double/triple skin polycarbonate glazing element as standard
- ◆ Foamed PVC upstand requires no additional insulation
- ◆ PVC edge frame thermally broken to eliminate cold bridging
- ◆ Achieves 'U' value, meeting Part L 2006 Building Regulations
- ◆ System includes hinged ventilation and glaze vents
- ◆ Can be fixed direct to builder's kerb using a PVC kerb adaptor
- ◆ Pyrovent automatic fire vent, Access Hatch and AOV variants available

COXDOME 2000 PYROVENT

Automatic venting of dangerous smoke and fumes can assist in keeping corridors and escape routes clear as well as providing visible warning of fire – particularly of benefit in unattended buildings.

The Coxdome 2000 Pyrovent embodies all the qualities of the 2000 rooflight in an automatic smoke venting unit.

A permanently energised 24v DC electromagnet, connected to a proprietary heat or smoke sensor retains the unit in the closed position. When released, powerful gas rams within a centrally mounted channel rapidly open the Pyrovent to the full 90 degrees for maximum venting.

Design ensures fail safe operation in the event of mains electrical failure. Full electrical details are available on request.

- ◆ Three sizes available – 900mm x 750mm, 900mm x 900mm and 900mm x 1200mm
- ◆ Compatible with standard heat/smoke detection systems; multiple arrangements can be operated simultaneously
- ◆ Supplied fully assembled on upstand, ready for installation (not available on kerb adaptor)
- ◆ Powered closure version available as extra

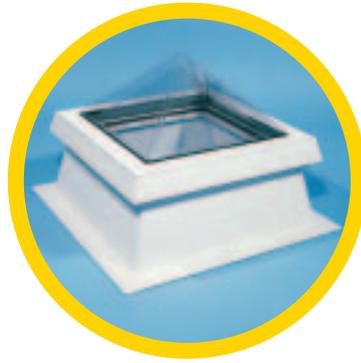
Both sizes of model are capable of operating under loading; for specific details see General Information. As the unit opens rapidly and with force, consideration should be given to the siting of Coxdome 2000 Pyrovents relative to roof access, walkways and the like.

The retaining straps must not be removed until the rooflight is incorporated into the roof and the electromagnet energised.

It is recommended that the unit be tested once a month.



GENERAL INFORMATION



Application of weathering membrane

Coxdome 2000 rooflights 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. The foamed PVC upstand of the Coxdome 2000 is compatible with all popular waterproofing systems.

Mastic Asphalt

To assist in the application and to combat the problem of asphalt 'slump' during warm weather we recommend that wire mesh be secured to the upstand using 9mm maximum size staples. Due to the insulating properties of the upstand sufficient time (4-6 hours) should be allowed between coats to allow for cooling.

Bitumen Felt System

The upstand should first be primed and then normal application techniques followed.

Torch-on Systems

The upstand should first be primed. The base and cap sheet should be applied using a 'roll and pour' technique the bitumen having been melted with flashing folded back away from the upstand. Care should be taken to avoid scorching or damaging the surrounding dome frame of the rooflight with the gas torch.

Single Ply PVC System

The PVC upstand is ideal for direct bonding of the PVC single ply covering and may be solvent welded or fully adhered to the upstand to its full height or the recommended minimum of 150mm.

Fixing to Builder's Kerb

If waterproofing is dressed on the top of the builder's kerb it should be butt joined and not lapped in order to ensure a secure and level fixing.

Condensation

The formation of condensation on the inner surfaces of a rooflight is governed by various environmental conditions such as; humidity, internal and external air temperatures, air movement, etc. Condensation occurs where high humidity and lower temperature surfaces interact – therefore the risk of condensation is highest during winter periods.

If the humidity in the air cannot be reduced at source, possibly by removing the moisture producing operation, then the risk of condensation forming will be higher.

Careful consideration of the rooflight specification can help to reduce the incidence of condensation. The double skin of the Coxdome 2000 minimises the risk of condensate forming on the inside of the glazed element. Accordingly, if conditions are expected to be warm and humid or the location is of a residential or domestic nature, the use of our Coxdome 2000 rooflights described in this brochure is recommended. Cox Building Products clearly cannot control the environmental conditions and therefore under adverse conditions condensation may still occur without there being any inherent fault in the rooflight itself.

Thermal Transmittance

The average thermal transmittance (U value) of Coxdome 2000 units is as follows:

- ◆ Double-skin unit on PVC kerb adaptor
- ◆ 2.74 W/m² °C Double-skin unit on PVC
- ◆ Upstand 2.58 W/m² °C
- ◆ Triple skin domes available to allow a greater area of rooflight coverage, as defined in Part L 2002 Edition, and U values for Part L 2006

Pyrovent Lifting Capacity

Unit is capable of lifting an additional load of:

- ◆ 900mm x 750mm and 900mm x 900mm sizes: 375N/m²
- ◆ 900 x 1200mm sizes: 245N/m²

IMPORTANT NOTES

The responsibility for determining that any building component complies with the relevant Building Regulations rests solely with the client or specifier.

Exposure to excessive temperatures, unusual climatic or site conditions, or use on a pitched roof greater than 20 degrees will require special consideration; in such circumstances consult Cox Building Products Ltd.

The Company's policy is one of continuous product improvement; accordingly Cox Building Products Ltd reserves the right to alter specifications without prior notice.

COXDOME 2000

COXDOME 2000 VENTILATION UNIT

Where ventilation is required, Coxdome 2000 rooflights up to size 1500mm x 1500mm may be specified as hinged units.

Rectangular units are hinged along the longer side (shorter side for 900mm x 750mm) and in all cases steel inserts strengthen the dome frame. Operation is either manual or electrical.

- ◆ Suitable for use with splayed upstand or kerb adaptor
- ◆ Unit fully sealed when in closed position
- ◆ Infinitely variable degree of ventilation with manual or electric operation, up to a maximum opened height of 300mm
- ◆ Manual option incorporates worm drive opening mechanism, which may be operated by a portable winding rod (sold separately)
- ◆ Powered option incorporates linear actuator operated by a switch, which can be conveniently sited to customer requirements

COXDOME 2000 ACCESS HATCH

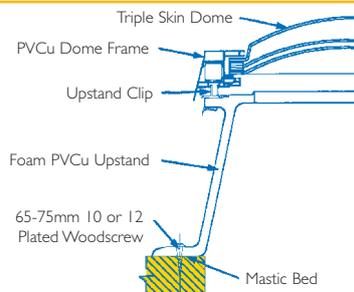
Maintaining the high standards of the Coxdome 2000 system, the Access Hatch is a hinged rooflight, which can be opened to 90 degrees.

The unit is semi automatic and when manually released, partially opens by the means of a gas ram.

The unit is counter balanced by a second gas ram to enable the full opening to be achieved with the minimum of effort.

A handle is provided on the opening section to assist closing.

- ◆ Available in 900mm x 750mm, 900mm x 900mm and 900mm x 1200mm sizes
- ◆ Standard operation is from the inside, external operation can be provided
- ◆ Supplied fully assembled on upstand ready for installation (not available on kerb adaptor)



TYPICAL DIMENSIONS AND DATA

Overall size (mm) Rooflight/roof opening when using Splayed Upstand (A)	Overall kerb (mm) dimension including water proofing when using Kerb Adaptor (B)	Material Polycarbonate Clear/Diffused Shape Dome/Pyramid	Ventilation Area (m ²) Hinged Ventilator
600 x 600	580 x 580	D/P	0.212
750 x 750	730 x 730	D/P	0.372
900 x 600	880 x 580	D/P	0.350
900 x 750	880 x 730	D/P	0.402
900 x 900	880 x 880	D/P	0.445
1050 x 1050	1030 x 1030	D/P	0.553
1200 x 600	1180 x 580	D/P	0.446
1200 x 900	1180 x 880	D/P	0.534
1200 x 1200	1180 x 1180	D/P	0.621 *
1500 x 1050	1480 x 1030	D/P	0.666 *
1500 x 1500	1480 x 1480	D/P	0.797 *
1800 x 1200	1780 x 1180	D/P	0.797 *
1800 x 1800	1780 x 1780	D/P **	N/A

Note

See main product selector for all available options.

* Ventilator operated by double opening mechanism.

** Pyramids available in 30 degree pitch only (normally supplied in 45 degree pitch).



COXDOME MARK 5

THE INSIDE STORY

COXDOMES

Glazing

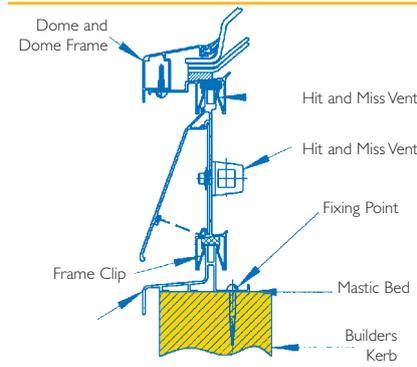
Glazing elements may be specified as double/triple skin in polycarbonate.

Edge Protection

An aluminium frame protects the glazing element, whilst allowing the necessary thermal movement.

Ventilation

Various types including "Hit and Miss", slim line ventilators and powered vent options are available, as well as hinged rooflights.

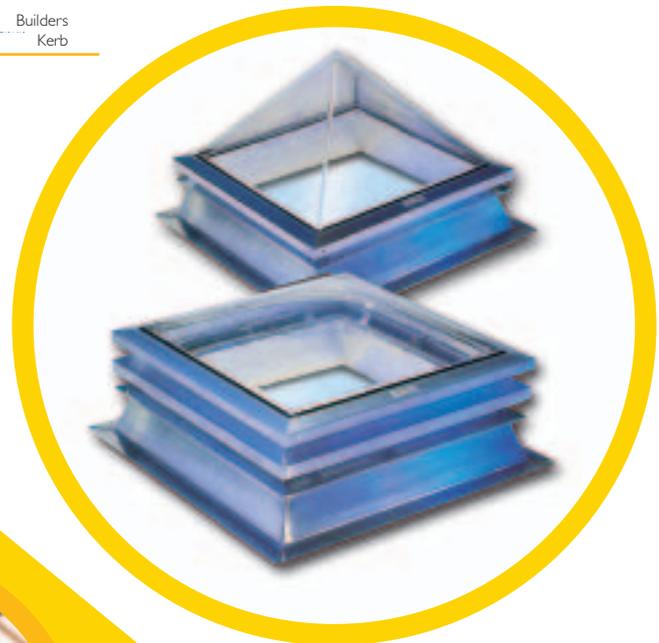


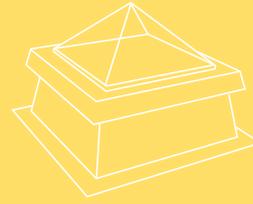
Simple Snap-together Assembly

With Coxdome Mark 5's unique aluminium retaining clips, once the upstand has been fully fixed to the roof deck, no unsightly and vulnerable external fixings are needed for the glazing; it is simply snapped into place as the final fit thereby avoiding soiling during the weatherproofing operation.

Upstands

Coxdome Mark 5 upstands, which are designed to incorporate insulation, are manufactured from extruded aluminium in two styles, ribbed or plain, for use with all standard roof finishes.



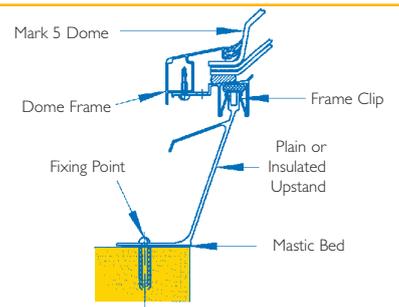


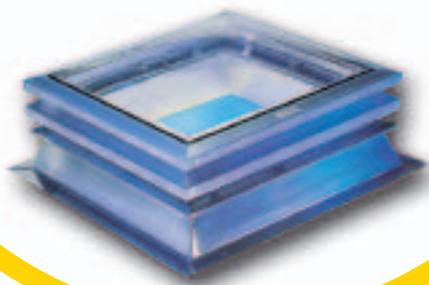
A TRULY VERSATILE ROOFLIGHT SYSTEM

Coxdome Mark 5 is more than just a rooflight. It is a functional and highly versatile system offering numerous configurations of components to cover a multitude of diverse applications – simply, attractively and cost effectively.

Available for more than 20 years, the Coxdome Mark 5 has proved itself in a variety of applications, particularly institutional buildings such as schools, libraries and hospitals.

- ◆ Square or rectangular domes and pyramids in a wide range of sizes
- ◆ Quality extruded aluminium construction
- ◆ Wide range of thermoplastic glazing materials
- ◆ Glazing protected by aluminium edge frame
- ◆ Natural and powered ventilation options
- ◆ Choice of upstands for different roof finishes





STANDARD OPTIONS

Glazing Materials

Domes and pyramids are available with triple, double or single skin in clear, diffused and tinted polycarbonate.

Upstands

Two styles of upstand are offered, each with a counter flashing 165mm high, allowing weatherproofing of the deck. Insulation is optional on both but is strongly recommended in order to reduce the risk of condensation.

Plain

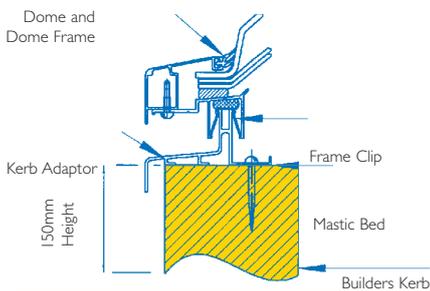
Designed for use with felt or sheet roof finishes, the upstand incorporates semi-rigid insulation on the outside when specified.

Ribbed

Having external lateral ribs this style is designed for use with traditional mastic asphalt. Insulation may be specified in which case it is located on the inner surface, with an aluminium retainer.

Kerb Adaptor

Where Coxdome Mark 5 rooflights are to be fixed to a builder's kerb a simple extruded aluminium adaptor is available.



Note:

If waterproofing is dressed onto the top of the builder's kerb it should be butt jointed and not lapped in order to ensure a level and secure fixing.

Powered Ventilator

This unit consists of a centrifugal fan mounted in an aluminium section above the chosen roof mounting. It is used where mechanical extraction is preferable to natural ventilation. The unit, which has 50w loading and operates at the standard voltage of 230-250v AV/50Hz, is controlled by a variable speed control switch, which can be conveniently sited. The single fan provides air movement rates from 191m³/hour to 380m³/hour (maximum in free air). Extra fan units may be used for higher volumes of air movement. A single fan is supplied for all sizes up to 1200mm x 1200mm; above this, two fans are supplied as standard.

Slimline (C/050 Ventilator)

This ventilator comprises top hung dampers within extruded aluminium sections, which are fixed to either the upstands or the kerb adaptor. It is designed to provide adjustable control of natural ventilation but only increases the overall height of the assembly by 113mm. The dampers on each side of the rooflight can be opened and closed independently. The integral weather cowls incorporate insect screens.

Hit and Miss Ventilator

Hit and Miss ventilators consist of slotted aluminium sections with black PVC shutters enabling the degree of ventilation to be controlled. Provided in pairs on opposite sides (the longer ones in the case of rectangular rooflights) the units are protected by an external weather cowl and insect screen.

Permanent Ventilation

Where permanent ventilation is required, Hit and Miss ventilators are supplied without the sliding shutter.

Note:

Long arm poles are available to operate any of the above manual ventilation options.

Hinged Rooflight

Opening rooflight, hinged along the longer side in the case of rectangular sizes (shorter side for 900mm x 750mm) is available where high levels of ventilation are required. The glazing element, which incorporates a weather hood, is raised to a maximum of 310mm by manually operated worm screw gear for which a portable winding rod can be supplied; electrical operation is available on sizes up to 1050mm x 1050mm.

For ventilation areas, see table.

COXDOME MARK 5

GENERAL INFORMATION

Condensation

The formation of condensation on the inner surfaces of a rooflight is governed by various environmental conditions such as humidity, internal and external air temperatures, air movement, etc. Condensation occurs where high humidity and low temperature surfaces interact – thus condensation will be at its worst during winter periods. If the humidity of the air cannot be reduced at source, possibly by removing the moisture producing operation, then the risk of condensation forming will be higher:

Careful consideration of the rooflight specification can help to reduce the incidence of condensation. A double skin dome or pyramid will minimise the risk of condensate forming on the inside of the glazed element. The inbuilt condensation gutters on the Coxdome Mark 5 will collect a limited amount of moisture and allow it to drain away. Ventilation can frequently help by carrying away humid air. If conditions are expected to be warm and humid or the location is of a residential/domestic type, the use of our Coxdome 2000 rooflights as described in our relevant literature is recommended. Cox Building Products Ltd clearly cannot control the environmental conditions and therefore under adverse conditions condensation may still occur without there being an inherent fault in the rooflight itself.

Thermal transmittance

The average thermal transmittance (U value) of thermoplastic units is as follows:

Double skin	2.81 W/m ² °C
Single skin	5.73 W/m ² °C

Finishes

All metal components of the Mark 5 range are normally supplied in mill-finished aluminium. Polyester powder coated finishes are available in Matt standard RAL colours.

IMPORTANT NOTICE

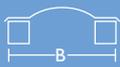
The responsibility for determining that any building component complies with the relevant Building Regulations rests solely with the client or specifier:

Exposure to excessive temperatures, unusual climatic or site conditions, or use on a pitched roof over 20 degrees will require special consideration; in such circumstances please consult Cox Building Products Ltd.

Information in this publication and otherwise supplied to users is based on our general experience, best knowledge and belief. Because of factors which are outside our knowledge and control and which can affect the use of products, no warranty is given or is implied with respect to such information.



TYPICAL DIMENSIONS

Overall size (mm) of Rooflight/roof opening when using Splayed Upstand (A)	Overall kerb dimension (mm) incl. water proofing (B). For pyramid kerb dimensions call Cox Building Products.	Material Polycarbonate Clear/Tinted Diffused Shape Dome/Pyramid	Hit & Miss permanent ventilation (m ²) 2 sides	Slimline (Co50) ventilator (m ²) total	Hinged Ventilator (m ²)
					
600x600	530 x 530	D/P	0.020	0.120	0.225
750x750	680x680	D/P	0.025	0.150	0.300
900x600	830x530	D/P	0.031	0.150	0.300
900x750	830x680	DOME	0.031	0.165	0.337
900x900	830x830	D/P	0.031	0.180	0.375
1050x1050	980x980	D/P	0.037	0.210	0.450
1200x600	1130x830	D/P	0.043	0.180	0.375
1200x900	1130x830	D/P	0.043	0.210	0.450
1200x1200	1130x1130	D/P	0.043	0.240	0.525
1500x1050	1430x980	DOME	0.055	0.255	0.562
1500x1500	1430x1430	D/P	0.055	0.300	0.675
1800x1200	1730x1130	D/P	0.067	0.300	0.675
1800x1800	1730x1730	D/P *	0.067	0.360	0.825
2400x2400	2330x1130	DOME	0.091	0.360	0.825

Note:

See main product selector for all available options.

* Pyramids available in 30 degree pitch only (normal pitch 45 degree).



COXDOME TRADE RANGE

Coxdome Trade Range is a high quality product in a comprehensive range of sizes meeting the basic needs of small builders without sacrificing material specification.

COXDOMES

FEATURES

Glazing

- ◆ Double/Triple skin UV enhanced polycarbonate glazing, long lasting and highly durable
- ◆ Domes and pyramids as standard
- ◆ Insulated PVCu upstands with smooth white finish
- ◆ Easy to fit, install and is suitable for all traditional roof finishes with no internal decorating needed
- ◆ Patented security fixing, provides a high level of resistance to forced entry
- ◆ Crisp white internal finish
- ◆ The Trade Range is available as hinged units, which are manually or electrically operated, and as fixed units
- ◆ Trade is also available as an AOV

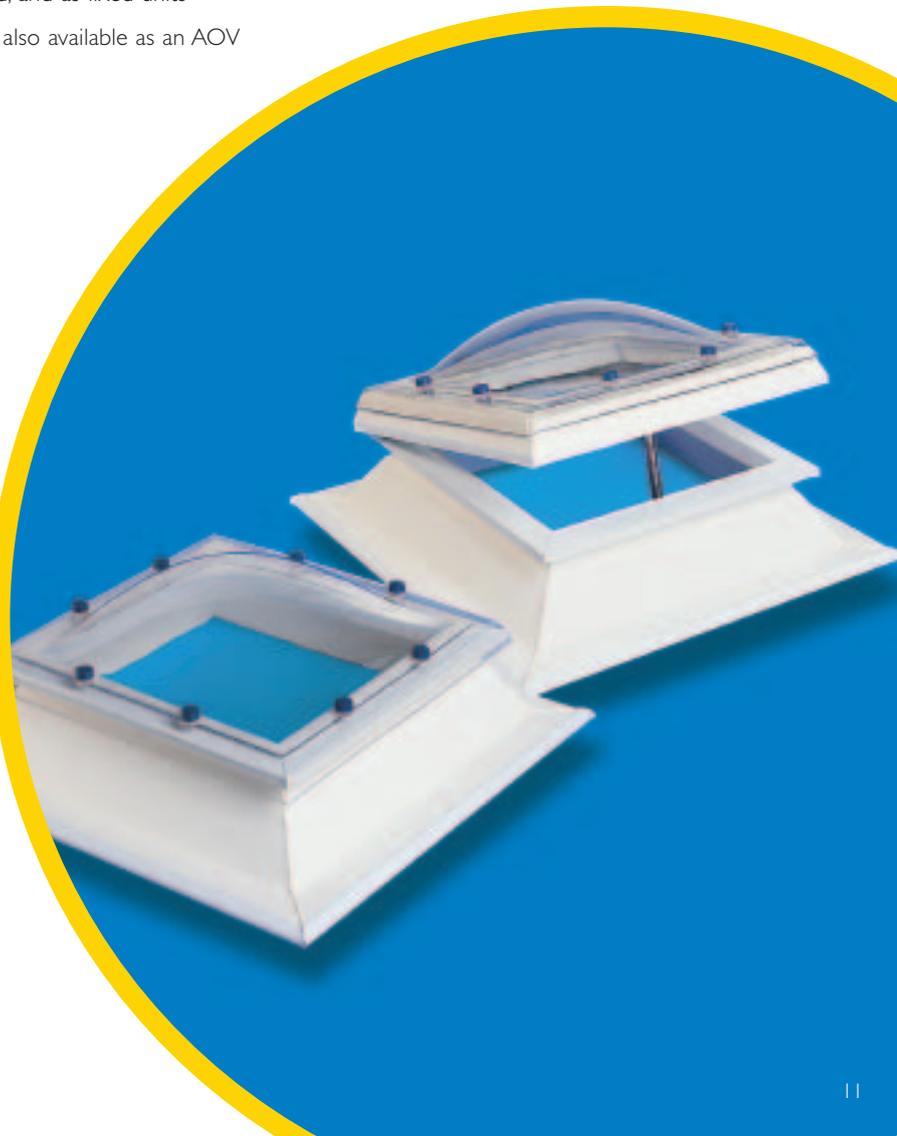
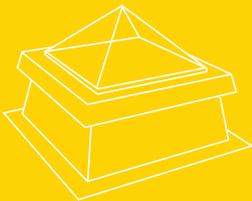
TYPICAL DIMENSIONS

Overall size (mm) of rooflight/roof opening when using splayed upstand



Square	Rectangular
630 x 630	630 x 780
780 x 780	630 x 930
930 x 930	630 x 1230
1080 x 1080	930 x 1230
1230 x 1230	

See product selector for complete range of sizes.





COXDOME TPX RANGE

COXDOMES

Glazing

A range of materials, shapes and tints.

Polycarbonate

- ◆ Highest quality 3mm thick co-extruded enhanced UV protected polycarbonate
- ◆ Double, triple and single skin options
- ◆ Available in clear and obscure as standard, tints available on request

Shapes

- ◆ Square and rectangular base dome
- ◆ Square and rectangular base, 30 degree pyramid shape
- ◆ Circular shape

Guide to Glazing options

The effective use of rooflights allows natural light to illuminate a room.

Clear glazing permits high light transmission levels whilst the solar control grades limit glare and thermal energy transmission into the building and reduce brightness to a suitable level.

The chart below will enable you to make the right choice.

TYPICAL DIMENSIONS	
Polycarbonate Glazing	Light Transmission*
Clear	92%
Diffused	92%
Opal	50%
Bronze	45%

*Based on single skin

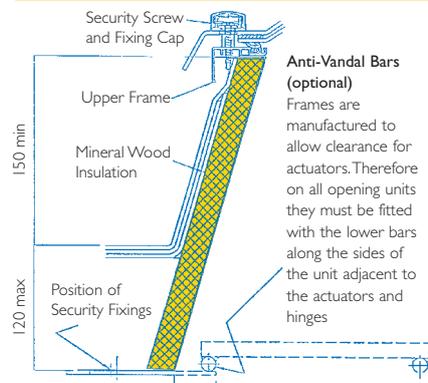
A RANGE OF ROOFLIGHTS, OFFERING BUILT-IN QUALITY, FLEXIBILITY AND PEACE OF MIND

The TPX range offers all the following features as standard and at no extra cost:

- ◆ Highest quality enhanced UV protected polycarbonate glazing
- ◆ 15 year product warranty
- ◆ Flexible polyester finish to the upstand
- ◆ Unique upper PVC frame for water tightness
- ◆ Security fixings
- ◆ BBA tested for thermal performance

To ensure that TPX rooflights can meet specific requirements many additional options are available.

- ◆ Wide choice of shapes, tints and glazing
- ◆ Range of upstands and kerb adaptors
- ◆ Wide choice of ventilation options
- ◆ Additional security features



Upstand Insulation details notes:

1. With Mineral Fibre insulation the roof finish (not by Cox) must be feathered to a maximum thickness of 15mm for the top 30mm.
2. With cork insulation the roof finish (not by Cox) must be feathered to a maximum thickness of 15mm for the top 30mm

Security

Maximum protection is built-in as standard with security headed screws concealed within a waterproof moulding supplied for fixing the glazing unit to the upstand.

To enhance the total security of the installation two additional options are available:

- ◆ A continuous metal frame to cover the dome fixings. Once snapped in position it provides optimum security
- ◆ A robust security grill for installation between the upstand and the roof

Roof Mounting

TPX rooflights are designed to fit on a wide choice of roof mountings and suit most requirements. A cleating technique eliminating welding is used which cold-forms steel from adjacent surfaces to provide a sturdy joint without the need for other components.

A membrane is incorporated at the interfaces ensuring a totally weatherproof joint. Internal surfaces are covered with a strippable PE film to protect the units until the installation is complete.

Upstands

TPX upstands are manufactured as standard from the highest quality galvanised steel and finished with a white flexible polyester coat during manufacture, ensuring long life to first maintenance.

A choice of Upstand heights:

- ◆ 175mm high for the unvented option only
- ◆ 270mm high for the vented options

A choice of Upstand Insulations:

- ◆ Cork insulation
- ◆ PIR

Circular Upstand:

- ◆ 150mm high circular GRP upstand available for circular TPX only





Kerb Adaptors

TPX Kerb adaptors are a simple, economical answer to commercial rooflight refurbishment. They are purpose-made from galvanised steel and enable standard size replacement rooflights to be fitted to any existing Kerb with the minimum of site work.

They are finished with a white polyester powder coat, tested to meet the automotive industry high standards.

Kerb Adaptor Heights

- ◆ 220mm high for the vented options

Kerb Adaptor Insulation

- ◆ Painted quality insulated cladding board providing the same 'U' value as a double skinned glazing unit

Ventilation

A wide range of TPX ventilation options are available to ensure that requirements for natural ventilation can be met.

- ◆ Permanent ventilation on two sides
- ◆ Open/Close ventilation on two sides
- ◆ Manual opening ventilation
- ◆ Dual voltage electrical opening ventilation
- ◆ Access Hatch option available in the following sizes only:
750mm x 900mm
900mm x 900mm
900mm x 1200mm
1200mm x 1200mm

For total flexibility all ventilation options are designed to fit in both the 270mm high upstand and the 220mm high kerb adaptor.

GENERAL INFORMATION

Maintenance

Maintenance could not be easier. Simply wash the unit with a mild diluted household detergent and wash off with water. Abrasive cleaners or chemical solvents must NOT be used.

Condensation

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

Safety

For advice on the Safe use of rooflights please contact our Technical Department.



BUILDING REGULATIONS

Meeting Industry Standards

Part L 2002 Edition recommends 12% of the roof should be covered by rooflights. It also requires the 'U' value of the dome to be 2.2 W/m²/K or less if 20% of the roof is covered with domes. Obviously if less than 20% of the roof is covered by domes the 'U' value permitted increases.

For 2006 Part L please contact the office for more information.

Building Regulations 1991 (Part B) classify plastic materials as TP(a) and TP(b) and permit their use in rooflights and roofs in the following manner:

Polycarbonate

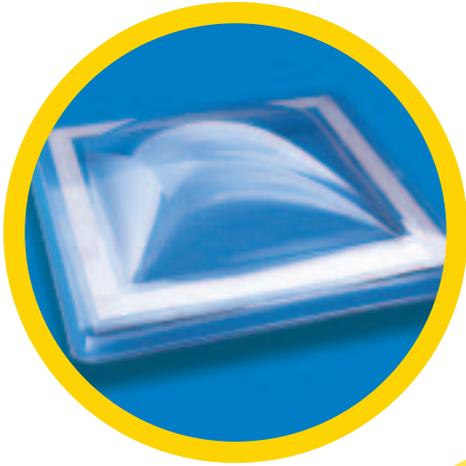
In start thicknesses of 3mm or greater the material is classified as TP(a) and achieves a Class I surface spread of flame classification. As such, the rooflight can be regarded as having AA designation.

TYPICAL DIMENSIONS AND MEASURING GUIDE	
Rooflight size (mm) = Roof opening size when using an upstand (A)	Maximum overall kerb dimension (mm) when fitted directly to an existing kerb (B)
Square Tops	Square Tops
600 x 600	545 x 545
750 x 750	695 x 695
900 x 900	845 x 845
1050 x 1050	995 x 995
1200 x 1200	1145 x 1145
1500 x 1500	1445 x 1445
1800 x 1800	1745 x 1745
Rectangular Tops	Rectangular Tops
600 x 900	545 x 845
600 x 1200	545 x 1145
600 x 1800	545 x 1745
750 x 900	695 x 845
900 x 1200	845 x 1145
900 x 1800	845 x 1745
1050 x 1500	995 x 1445
1200 x 1800	1145 x 1745
1200 x 2400	1145 x 2345
Circular Tops (Diameter)	Circular Tops (Diameter)
650	520
850	720
950	820
1050	920
1150	1020
1250	1120
1550	1420
1850	1720
2050	1920



COXDOME GALAXY RANGE

COXDOMES



The Galaxy Rooflight offers a domed rooflight either single, double or triple glazed which has a horizontal flange of 100mm that enables the rooflight to be positioned over existing kerbs of varying dimension and varying width.

IN ESSENCE

The Galaxy offers a much larger variation of dimension between the outside finished kerb and the inner face of the vertical leg of the moulding. Therefore many more existing rooflights can be replaced without the need for a kerb adaptor.

TYPICAL DIMENSIONS

Nominal Rooflight Size (mm) (A)	Overall Kerb Dimensions (mm)	
	Minimum	Maximum
 Square	Square	Square
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	970 x 970	1070 x 1070
1200 x 1200	1120 x 1120	1220 x 1220
1500 x 1500	1420 x 1420	1520 x 1520
1800 x 1800	1730 x 1730	1830 x 1830
Rectangular	Rectangular	Rectangular
600 x 900	510 x 810	610 x 910
600 x 1200	510 x 1120	610 x 1220
600 x 1800	510 x 1730	610 x 1830
750 x 900	660 x 810	760 x 910
900 x 1200	810 x 1120	910 x 1220
900 x 1800	810 x 1730	910 x 1830
1050 x 1500	970 x 1420	1070 x 1520
1200 x 1800	1120 x 1730	1220 x 1830
1200 x 2400	1120 x 2340	1220 x 2440

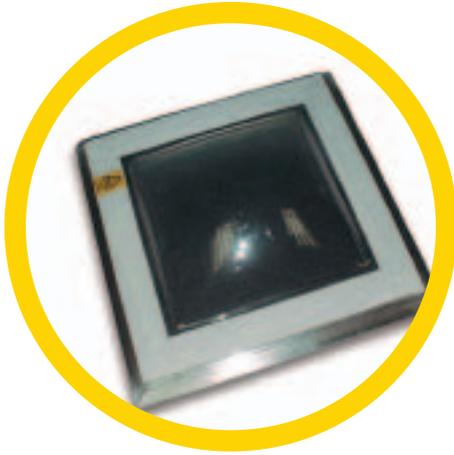
See product selector for complete range of sizes.





COXDOME GALAXY KERB ADAPTOR

COXDOMES



THE EXTRUDED ALUMINIUM KERB ADAPTOR

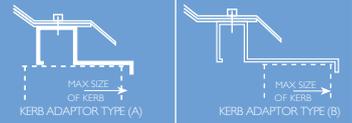
The extruded aluminium kerb adaptor is designed to be fitted in conjunction with Coxdome's Galaxy domes, directly to an existing builders upstand kerb.

The design in two profile sizes will allow for standard size Galaxy domes to be fitted to almost any size of existing kerb/upstand up to 2040mm x 2040mm.

Supplied as standard in mill finished aluminium. Can also be supplied white powder coated at an extra cost.

TYPICAL DIMENSIONS

Size (mm)	Shape	Overall Builders Kerb Size (mm)		
		Minimum	Maximum type (A)	Maximum type (B)
600 x 600	All Dome shape	610 x 610	680 x 680	
750 x 750		760 x 760	830 x 830	
900 x 900		910 x 910	980 x 980	
1050 x 1050		1070 x 1070	1140 x 1140	
1200 x 1200		1220 x 1220	1290 x 1290	
1200 x 1200		1200 x 1220		1430 x 1430
1500 x 1500		1520 x 1520	1590 x 1590	
1500 x 1500		1520 x 1520		1730 x 1730
1800 x 1800		1830 x 1830	1900 x 1900	
1800 x 1800		1830 x 1830		2040 x 2040
600 x 900		610 x 910	680 x 980	
600 x 1200		610 x 1220	680 x 1290	
600 x 1800		610 x 1830	680 x 1900	
750 x 900		760 x 910	830 x 980	
900 x 1200		910 x 1220	980 x 1290	
900 x 1800		910 x 1830	980 x 1900	
1050 x 1500		1070 x 1520	1140 x 1590	
1200 x 1800		1220 x 1830	1290 x 1900	
1200 x 2400		1220 x 2440	1290 x 2470	



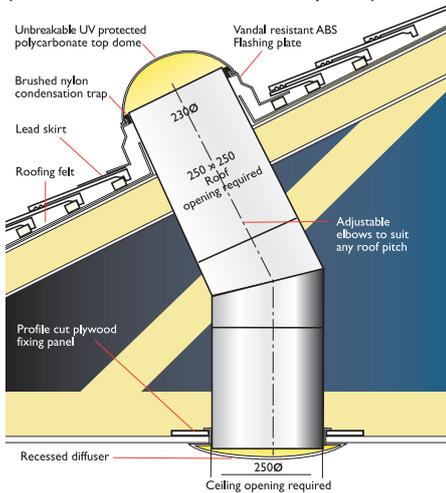


COX SUNTUBE

Bringing natural light into your life



Cox SUNTUBE
(9"/229mmø on tiled roof with ABS upstand)



COXSUNTUBE

COX BUILDING PRODUCTS

Over the years Cox Building Products has been instrumental in the development of many ground breaking projects, which have regularly pushed the boundaries of glazing technology to new levels. Cox offers a complete service providing fully designed bespoke systems, on-site technical support and after sales service.

Cox Suntube is a revolutionary way to pipe natural light from your rooftop into your home – to brighten areas from dawn to dusk where natural light from windows cannot reach. Ideal for bathrooms, ensuites, hallways, kitchens, walk-in wardrobes or any area too small to install traditional Coxdomes but still in need of the benefits of natural light.

Equivalent Electricity Output

The most remarkable feature of Cox Suntube is the amount of intensified light it can deliver through a 230mm diameter tube. The light will vary depending on the time of year – but can be expressed as an equivalent to electric lighting, as shown in the diagram to the right.

Bringing natural light wherever you want it

- ◆ Bathrooms
- ◆ Kitchens
- ◆ Ensuites
- ◆ Hallways
- ◆ Walk-in wardrobes
- ◆ Small Offices

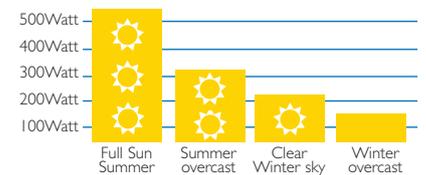
Making Light work

Cox Suntube's energy free, super-reflective tube even extends through adjustable bends and has an internal mirror-finish that intensifies and reflects natural light delivering free outdoor light (even on cloudy days) to a room or area below – where the light is evenly diffused by a translucent ceiling fixture.

The Suntube has a sealed column of air to prevent heat loss or solar gain.

SUNTUBE accessories

- ◆ 610mm extension pipe
- ◆ Lead flashing for any pitch
- ◆ Integral light kit – 50 watt halogen Chrome/Satin Chrome/Gold/Satin Brass effect ceiling trim options (white supplied as standard)
- ◆ Black out diffuser
- ◆ Vandal resistant screws
- ◆ 2 section 30° elbow
- ◆ 3 section 45° elbow



Based on a typical flat roof application measured approximately 1.5 metres below SUNTUBE diffuser. There is a 10% drop in light output for every metre of SUNTUBE and a 16% reduction for every elbow used.

*Based on 300mm diameter data.



COX WINDOWS PREMIER

COXWINDOWS



Premier is a range of high quality roof windows. These roof windows have a slim wood profile, which gives an excellent interior design and allows up to 10% more natural light into your room than competitor windows.

The Premier window has a high quality gas-filled thermo pane with 4mm float glass, 17mm gap with argon and 3mm float glass. This pane has a very good energy performance at $U_g = 1.1 \text{ W/m}^2\text{K}$ and this type of pane also ensures excellent sound reduction.

Premier is a thoroughly tested window and the construction and wood components ensure a great energy performance at $U_w = 1.7 \text{ W/m}^2\text{K}$ for the entire window. This means that you can easily keep the heat in and the cold out.

The Premier window is suitable for all roof materials – for an optimum installation please find the suitable flashing below. The window can be installed in a roof pitch from 15 – 90 degrees.

Premier is available as a normal centre hung roof window (AA) and also as a

Means of escape window (MOE). The Means of escape window is held open by a set of gas springs. This window is suitable for buildings where an extra emergency exit might be needed.

It is very easy to install the roof window – even for the end user. Just use the text-less instructions included with every window.

FLASHINGS

There are two types of high quality flashings that fit all Premier roof windows.

- ◆ The tile flashing (TF) fits all profiled roofing materials with a tile height of 16-90mm.
- ◆ The slate flashing (SF) fits all flat roofing materials with a height of 0-16mm.

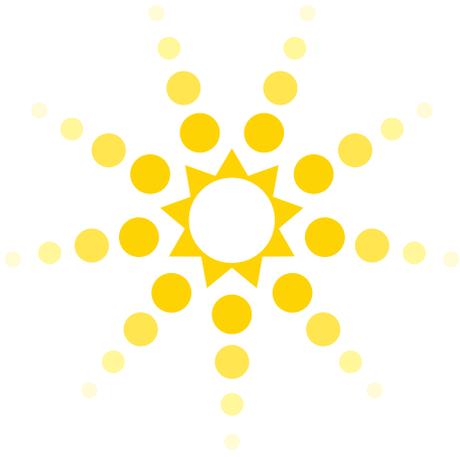
Both flashings are made of aluminium. The tile flashing is equipped with a lead apron and the slate flashing is equipped with a steel apron. Both aprons have been lacquered in umber grey for improved aesthetics. All flashings have been tested for complete water tightness under the most rigorous conditions.

TYPICAL DIMENSIONS

Measurement (mm)	Roof Windows	Roof Windows Means of Escape	Tile Flashing	Slate Flashing
550 x 780	C2AP 55 x 78		TFC2A 55 x 78	SFC2A 55 x 78
550 x 980	C4AP 55 x 98		TFC4A 55 x 98	SFC4A 55 x 98
660 x 1180	F6AP 66 x 118		TFF6A 66 x 118	SFF6A 66 x 118
780 x 980	M4AP 78 x 98	MOEM4AP 78 x 98	TFM4A 78 x 98	SFM4A 78 x 98
780 x 1180	M6AP 78 x 118		TFM6A 78 x 118	SFM6A 78 x 118
780 x 1400	M8AP 78 x 140	MOEM8AP 78 x 140	TFM8A 78 x 140	SFM8A 78 x 140
1140 x 1180	S6AP 114 x 118		TFS6A 114 x 118	SFS6A 114 x 118



General Information



Maintenance: Simply wash the units with mild diluted household detergent and rinse off with clean water. Abrasive cleaners or chemical solvents must not be used.

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.

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

Product Testing: All Coxdome rooflights have been successfully tested by NAMAS approved laboratories to the highest window standards. Thermal performance tests have been conducted by the BBA.

Building Regulations

Part L 2002 Edition recommends 12% of the roof should be covered by rooflights. It also requires the 'U' value of the dome to be 2.2 W/m²/K or less if 20% of the roof is covered with domes. Obviously if less than 20% of the roof is covered by domes the 'U' value permitted increases.

Part L 2006 edition information is also available. Please contact the office.

Building Regulations 1991 (Part B) classify plastic materials as TP(b) to permit their use in rooflights and roofs in the following manner: Polycarbonate: In start thicknesses of 3mm or greater the material is classified as TP(a) and achieves a Class 1 surface spread of flame classification. As such, the rooflight can be regarded as having AA designation.

Important Notes

The responsibility for determining that any building component complies with the relevant Building regulations rest solely with the client or specifier.

Information in this publication is based on our general experience, best knowledge and belief.

Because of factors which are outside our knowledge and control and which can effect the use of products, no warranty is given with respect to such information.

The company's policy is one of continuous improvement; accordingly Cox Building Products Ltd reserve the right to alter specifications without notice at any time.

Cox Building Products Warranty

"Cox Building Products' 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 Cox Building Products' written fixing and maintenance instructions.
2. The product must be transported and stored, prior to installation, in accordance with Cox Building Products' 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, Cox Building Products must be provided with free of charge uninterrupted access in order to inspect, repair or replace a faulty product.
9. Cox Building Products 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 Cox Building Products 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.



Area Sales Territories

South East Region

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South West Region

Sales Contact: 07831 241629

London & East Anglia Region

Sales Contact: 07795 962091

North Midlands

Sales Contact: 07831 558951

North Region

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