

# Installation Manual

## The Conservation Rooflight



A roof window range suitable for pitched roofs between  $17.5^{\circ}$  and  $65^{\circ}$ .

Details for use with flashing kit.

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#### SECTION 1 - How to use this manual

> Welcome

> General

#### WELCOME

Thank you for choosing The Conservation Rooflight. We are sure that The Conservation Rooflight will provide a high-quality finishing touch to your project. This guide is intended to assist building contractors and homeowners in receiving, handling and installing The Conservation Rooflight. Please take the time to read and carefully follow these instructions. Before you start your installation, please refer to the **'IMPORTANT INFORMATION'** section at the back of this installation guide.

#### GENERAL

Please note the following key points:

- \* The minimum roof angle at which The Conservation Rooflight can be installed is 17.5 degrees.
- \* The maximum roof angle at which The Conservation Rooflight can be installed is 65 degrees.
- \* The following installation details pertain to COLD ROOF construction and CLAY tile type installed 'on the rafters', with use of the flashing kit. Some installation details may vary depending on the roof construction and tile type being used. Always view this manual in conjunction with the cross sectional installation details relevant to your project. See Section 8 (Pages 26 & 27) 'Suggested installation details' towards the back of this manual.

In order to install The Conservation Rooflight you will need to know:

- 1. The Conservation Rooflight model to be installed.
- 2. The type of roof construction to be used, e.g. warm roof or cold roof.
- 3. The type of roof tile to be used, e.g. clay tiles, slate, interlocking tile, pantile, zinc or lead sheet, etc.
- 4. Whether you wish to install 'on the rafter' or 'between the rafter'. See page 7 for further guidance.

TEXT- Highlighted in **BOLD** indicates a point of special importance.

# 

The images in this manual are intended to aid installation and where required the installer must use suitable PPE (which may not be shown) and abide by the applicable Health & Safety requirements. It is assumed that suitable method statements and risk assessments will be undertaken prior to installation.

## SECTION 1 - How to use this manual

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## SECTION 2 - Before you get started

> Contents of the box

#### CONTENTS OF THE BOX

## > The Conservation Rooflight -1. Casement 2. Baseplate > Fixing pack 4. Fixing Coach Screw Mar ante TUB 0 Q the TULL Ture 6 -5. Coach Screw Washer 6 0 O > Flashing Kit- Purchased separately 11. 1x jamb flashing off-cut 8. 1x cill lead flashing 9. 1x head lead replacement flashing 6. 1x right hand jamb flashing & apron 10. 1x roofing felt 6. 1x left hand jamb 7. 2x flashing & apron soaker



NOTE: Please refer to separate manuals for installation of ironmongery/motors/fixing bracket/blinds

Detail B

## **SECTION 3 - Prior to installation**

- > Receiving the roof window
- > Transport & storage



#### **RECEIVING THE ROOF WINDOW**

We recommend that the roof window packaging is temporarily opened to allow inspection of the goods for damage. Follow the instructions on the delivery checking and advice label.

Once the roof window has been checked, repackage it in the original packaging for safe storage until the roof window is to be installed.

#### **TRANSPORT & STORAGE**

- Keep the roof window in its original packaging and store off the ground in a secure covered dry place until it is required for installation.
- When transporting the roof window in its box, carry the box by lifting it from the underside rather than lifting by its strapping.

# Only carry the box if the banding is attached in its original condition. Do not carry by the box if the nylon banding has been cut or appears in any way damaged.

- Stack multiple units carefully and only as many units high as is set out on the transport information label on the box.
- Only remove the roof window from its packaging when it is required for installation.
- Once unpacked carry the roof window by lifting it from the underside of the baseplate.
- Mark the original box with the window number/location and keep all accessories and linings in the original box until they are required. When the installation is complete and all accessories/linings are used, recycle all of the packaging materials.



Store in a covered dry secure area



Do not stack too high or allow to get wet

## **SECTION 4 - Prepare the structural opening**

> Type of roof

Before you can derive the structural framing dimensions you will need to understand which of the following options apply to your project:

#### ON THE RAFTER OR BETWEEN THE RAFTER

The type of tiles used affects how the roof window is installed. One of the following options will be used:



#### On the Rafter (Standard Installation):

This installation installs the roof window with it sitting on top of the rafters. For the majority of profiled tiles (Clay, Pantile etc) the roof window remains flush to the top of the tiles and will not project above the finished roof line. For thinner tile types (Slate) the roof window will not be flush and will project above the finished roof line. If a flush detail is required for thin tile types then a 'between the rafter' (commonly referred to as Flush Slate) installation is required.



#### Between the rafter (Flush Slate Installation):

When tile types are thinner and a standard 'on the rafter' installation would result in a non-flush installation; a 'between the rafter' installation can be used. The roof window is sunk in between the rafters to a depth equal to the height that it would protrude above the finished roof line if a standard installation was used, nominally to a sunk depth of 20mm (Installers are advised to check this dimension prior to installation). Due to the roof window being sunk below the top of the rafters, the associated structural framing sizes increase. Likewise, dependent upon the pitch of the roof, the run-off required at the cill tilting fillet may vary. Nominally quoted framing sizes use the lowest installation pitch and calculate for worst case scenario.

#### WARM OR COLD ROOF CONSTRUCTION TYPE



#### Cold roof

In a cold roof construction, the insulation layer is placed horizontally, directly above the ceiling of the upper story of the habitable section of the building, usually positioned between the joists in the loft space.



#### Warm roof

In a warm roof construction, the insulation is positioned directly under the external waterproofing (e.g. tiles or slates), following the rafter line.



INSTALLATION HEIGHT

The maximum height that can be used with the flashing kit is 75mm for all tile types. This is measured from the top of the soaker extrusion (part 6) to the top of the structural support (as shown). If your tiles are thicker than this then we recommend the use of lead soakers or mortar bed at the jambs.



NOTE: The Rooflight Co are able to supply either an 'on the rafter' flashing kit or a 'between the rafter' flashing kit, depending on your installation requirements.

#### **SECTION 4- Prepare the structural opening**

> Type of installation

#### TYPE OF INSTALLATION

To derive the structural framing dimensions for The Conservation Rooflight, you will need to have the following information to hand:

- ▶ The Conservation Rooflight model reference number to be installed.
- ▶ The type of roof construction to be used e.g. cold or warm.

Follow the appropriate information pathway to derive the structural framing dimensions below.



\* CSW = Clear Structural Width, CSL = Clear Structural Length (for 'on the rafter' installation only)

> Forming the structural opening

#### FORMING THE STRUCTURAL OPENING

The opening is formed using additional structural members which re-route the structural loads from the roof above, around the structural opening.



NOTE: All structural member sizing and fixings around the structural opening are to be as detailed by the project architect/structural engineer. Our drawings are indicative only.

The Conservation Rooflight - in a new roof



In a new roof the structural members can be designed to reduce the necessity for cutting and trimming.

## NOTE: The rafters and trimmers are doubled up in the image.

The Conservation Rooflight - in an existing roof



In an existing roof the structural opening may require additional structural members to be inserted and/or existing members cut and re-supported in order to facilitate installation in the location required.

## NOTE: The rafters and trimmers are doubled up in the image.

- > Prepared opening
- > Trim & finish the roofing membrane



> Cill tilting fillet

> Battening up to the cill



> Cill lead flashing

> Cill silicone fillet



> Installing the roof window

> Fix / level



> Perimeter silicone fillet

> Jamb flashing trim height



> Jamb flashing trim height



> Trimming the jamb flashing extrusion

> Installing the jamb flashing

NOTE: The positions for the guide notches were derived from a number of typical roof tiles and roof constructions. Depending on the roof makeup specific to the project. It may be necessary to trim the jamb flashing to a height not specified.

Orientate one of the jamb flashings (Part 6) and clip onto the baseplate (Part 2) rollover- the excess felt on the jamb flashing should be towards the head of the roof window. Do the same on the opposite side. Ensure the felt attached to the jamb flashing is placed over the general roofing membrane.

Installing the jamb flashing

NOTE: If the excess felt attached to the jamb flashing (part 6) meets the next lap in the general roofing membrane, ensure it is tucked into this lap.

Trimming the jamb flashing extrusion

Lay the jamb flashing (Part 6) down on a clean and dry surface. Fold back the foam and use a sharp stanley knife to firmly score along the entire length of the extrusion several times. Then break off the excess extrusion.

Jamb flashing\_

> Battening up the jambs> Installing the head tilting fillet



> Installing the head lead replacement flashing

> Installing the head roofing felt



> Weathering

> Installing the battens at the head



- > Soakers
- > Tile up the jambs



> Tile the head

> Complete the tiling



- > Insulation
- > Packers



> Ply packer

> Vapour barrier



> Plasterboard & skim

> Timber reveal & architrave



> Paint the timber lining > Mounting the ironmongery/ motor(s) / fixing bracket







### **SECTION 9 - Important Information**

> Care & maintenance

> Advisory

#### **CARE & MAINTENANCE**



To achieve the maximum service life from The Conservation Rooflight it is important that scheduled care and maintenance is undertaken. Please note that the guarantee may become void if the procedures outlined in the separate maintenance manual are not adhered to. Refer to separate **TECHNICAL SPECIFICATION AND MAINTENANCE DETAILS FOR METAL FRAMED ROOF WINDOWS** 

#### ADVISORY

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**Standard roof window:** All the information provided in this document refers to a standard specification Conservation Rooflight.



**Install in accordance with national building regulations/codes.** This manual is an installation suggestion and installers should verify 'fitness for purpose' in accordance with all applicable regulations/ standards at time of installation.



**Install in accordance with this manual:** The Rooflight Co cannot accept any liability if The Conservation Rooflight is not installed strictly in accordance with the instructions contained in this manual and implicit in the 'Suggested Installation Details'.



**Structural support:** Structural supports for The Conservation Rooflight are to be designed and supervised during construction by the roof window installer or project Structural Engineer. Nothing in this manual constitutes a structural proposal. Sizing/positioning of structural supports should be determined by the projects suitably qualified structural engineer.

## **SECTION 9 - Important Information**

> Roof window weight and opening angle

> Further Information

#### ROOF WINDOW WEIGHTS

When handling and installing The Conservation Rooflight its weight should be considered and adequate means employed to move the roof window into position to reduce the risk of accidents.

| MODEL REFERENCE<br>NUMBER | APPROXIMATE<br>CASEMENT<br>WEIGHT (KG) | APPROXIMATE<br>BASEPLATE<br>WEIGHT (KG) | OVERALL ROOF<br>WINDOW WEIGHT<br>(KG) |
|---------------------------|--|---|---------------------------------------|
| CR01-2                    | 18                                     | 18                                      | 36                                    |
| CR01-3                    | 22                                     | 29                                      | 51                                    |
| CR03-2                    | 24                                     | 22                                      | 46                                    |
| CR06-1                    | 10                                     | 12                                      | 22                                    |
| CR07-2                    | 14                                     | 14                                      | 28                                    |
| CR08-2                    | 22                                     | 20                                      | 42                                    |
| CR09-2                    | 29                                     | 24                                      | 53                                    |
| CR10-2                    | 32                                     | 26                                      | 58                                    |
| CR11-3                    | 35                                     | 25                                      | 60                                    |
| CR13-3                    | 43                                     | 30                                      | 73                                    |
| CR14-3                    | 47                                     | 33                                      | 80                                    |
| CR14-2                    | 35                                     | 28                                      | 63                                    |
| CR15-3                    | 57                                     | 37                                      | 94                                    |
| CR15-2                    | 43                                     | 34                                      | 77                                    |

#### PRODUCT IDENTIFICATION DETAILS

Place identification stickers here for your rooflight and spindle or fill in the following details.

| Serial or Purchase Order Number: | Serial or Purchase Ord | er Number: |
|----------------------------------|------------------------|------------|
| Model Number:                    | Model Number:          |            |
| Date of manufacture://           | Date of manufacture:   | //         |
|                                  |                        |            |

#### FURTHER INFORMATION

All of the images in this guide are diagrammatic (with some components omitted for clarity). They should be used as a reference and may not be a true representation of the installation.

Installation instructions are regularly reviewed and we reserve the right to update or amend these details without alteration to this guide.

NOTES

# Installation Manual

# The Conservation Rooflight

Please register your product at: www.therooflightco.com

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In the interest of continuous product development, it may be necessary to amend specification without alteration to technical literature.

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