

HINGED OPENING FLAT ROOFLIGHT: INSTALLATION GUIDE

ON DELIVERY OF YOUR NEW HINGED OPENING FLAT ROOFLIGHT, YOU WILL RECEIVE;

- Your Hinged Opening Flat Rooflight
- Control box (comes in cardboard box)
- Remote control and key remote (comes in cardboard box)
- Long Screws (come attached to the cardboard box)

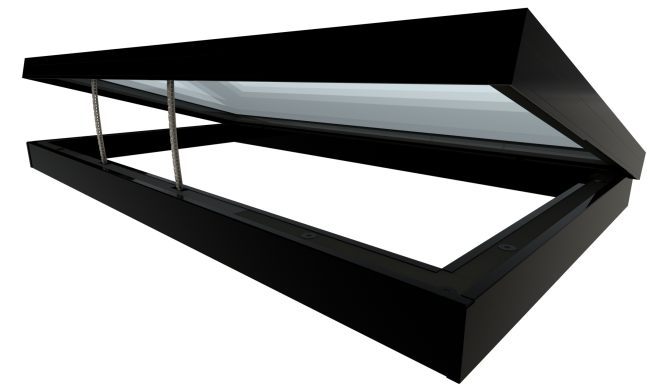
IN ADDITION TO YOUR NEW HINGED OPENING FLAT ROOFLIGHT, YOU WILL NEED;

- Silicone Adhesive Sealant (high quality; Dow Corning 791 recommended)
- Drill, bits and screws as required
- Materials to prepare a timber kerb

INSTALLATION GUIDE

Make sure to read through all steps and understand all requirements before beginning assembly. We also recommend that you study the 'cable location guide' which provides further guidance on how to run the rooflight cabling into the property as part of the installation. This is located at the end of this guide, alongside the wiring guide and a roof section diagram

Please take precaution when moving heavy objects and working at height. Be sure to use the correct equipment. Guide weights based on size, are shown on the chart to the right.



GUIDE WEIGHTS	
Size (mm)	Weight (kg)
1000 x 1000	95
1500 x 1000	130
2000 x 1000	164
1500 x 1500	176

ROOF MAKER

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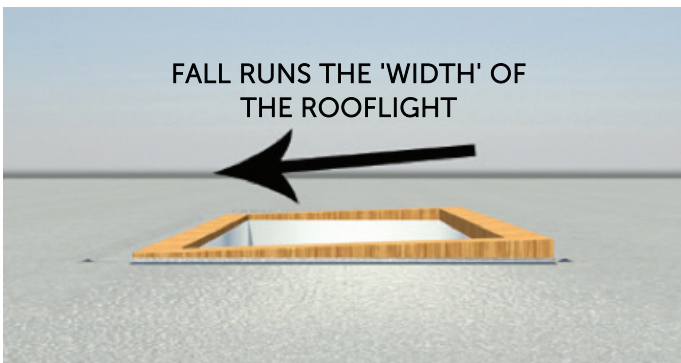
STEP ONE

PREPARE A TIMBER KERB FOR YOUR ROOFLIGHT

Prepare a 70mm width timber kerb for your rooflight. This should be a minimum of 30mm in height from the finished roof level (at the lowest side). The internal dimensions of your kerb should match the internal dimensions of the rooflight/size ordered.

SETTING THE DIRECTION OF THE FALL

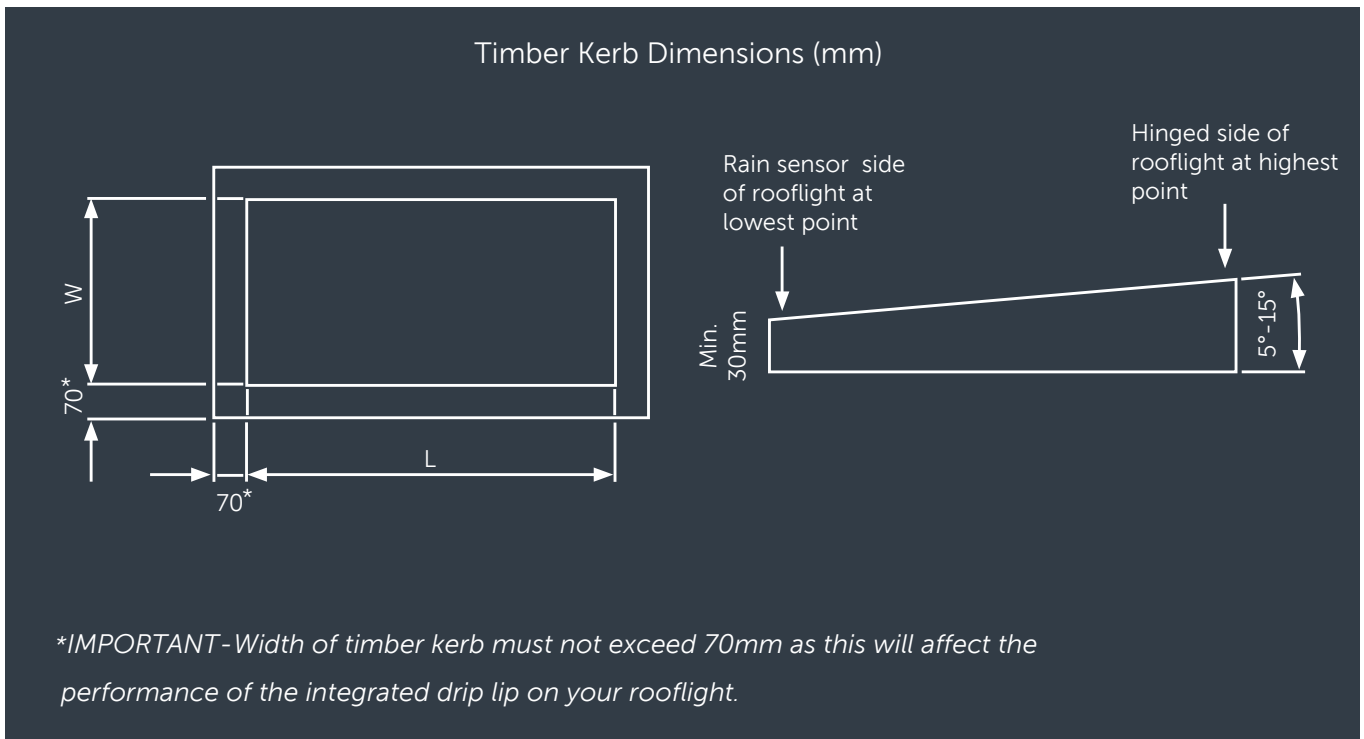
The rooflight always opens across the 'width' of the rooflight, so the hinges and motors will always be located on the longer sides of the rooflight, which are the sides that should be set 'level.'



Your hinged opening rooflight needs a slight pitch of 5°-15° for rain to run off. If your roof does not have this pitch, build the angle into your kerb.

IMPORTANT - You will also need to ensure that the hinged side of your rooflight is located at the highest side of the timber Kerb, with the rain sensor side being located at the lowest side of the timber kerb.

It is also important that the hinged side of the rooflight and the side that opens (rain sensor side) are set 'level,' with the sides that are pitched between 5°-15° running between these 2 sides.



**IMPORTANT - Width of timber kerb must not exceed 70mm as this will affect the performance of the integrated drip lip on your rooflight.*

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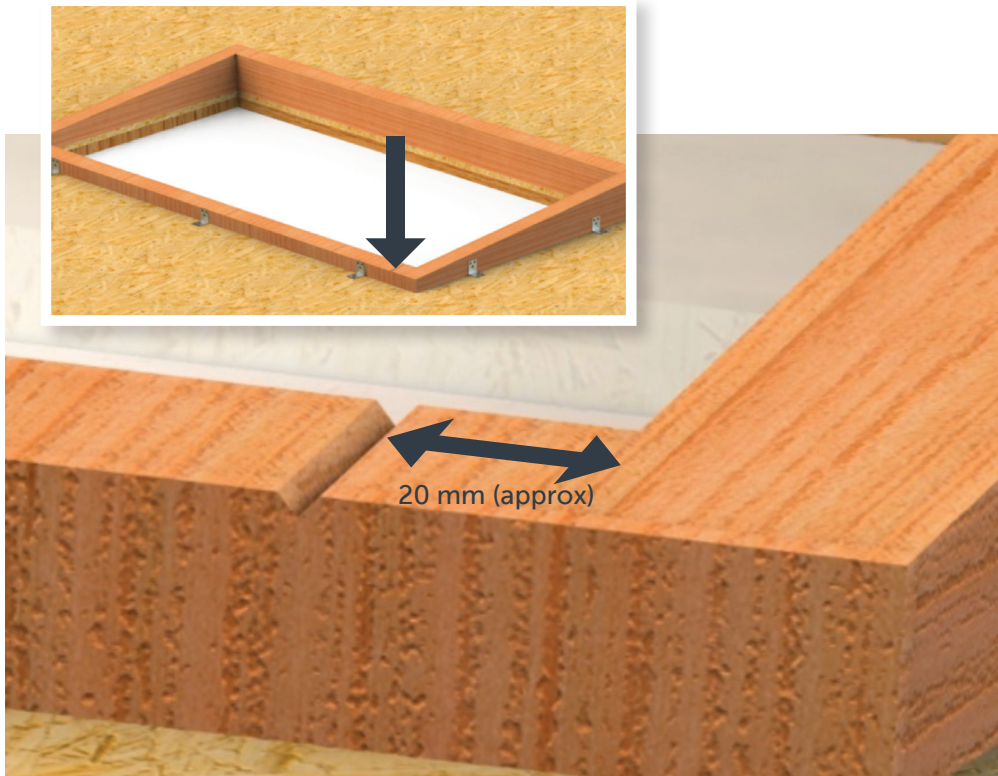
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STEP TWO

RAIN SENSOR

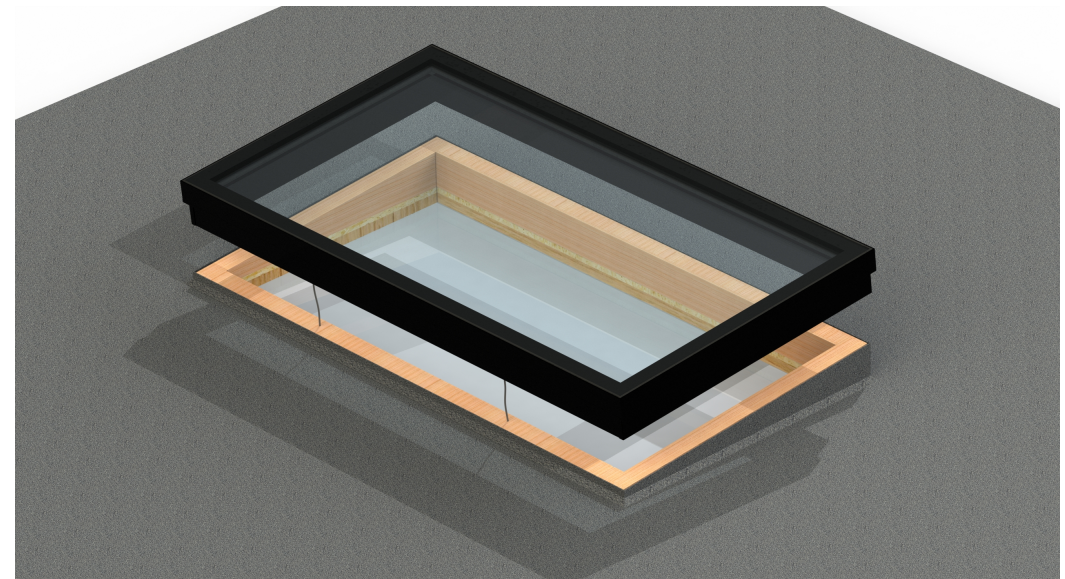
It is advised that a small groove/notch (5mm max depth) is cut into your kerb in line with where the rain sensor will be positioned. This will allow you to run the wire through for your rain sensor. ***The rain sensor is always located at the right hand side as the below diagram shows.***



STEP THREE

CREATE HOLES/GROOVES IN THE TIMBER KERB TO RUN THE ROOFLIGHT CABLING INTO THE PROPERTY

First, mount the supplied control box in a desired location i.e. ceiling void. Access panel may be added at your discretion. Trial fit your rooflight and mark a suitable location to drill a hole/s or create notches for the rooflight's electrical cables - ***Again, please refer to the cable location guide located at the end of this document.***



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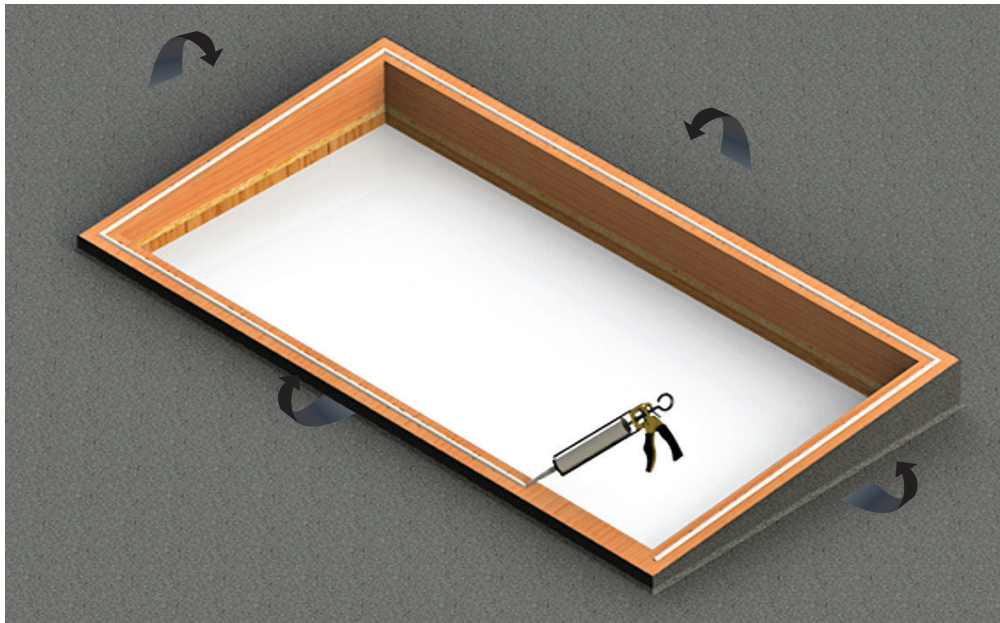
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STEP FOUR

APPLY SILICONE AROUND THE TOP FACE OF THE TIMBER KERB

Apply the flashing/roof membrane to the sides of the kerb (Leaving the top face as exposed timber) and apply a thick bead of silicone around the top face, as shown.

You can now place the rooflight onto the kerb and connect it to the power supply, ready to open the rooflight and fix it with the provided long screws. The wiring guide can be found toward the end of this document.

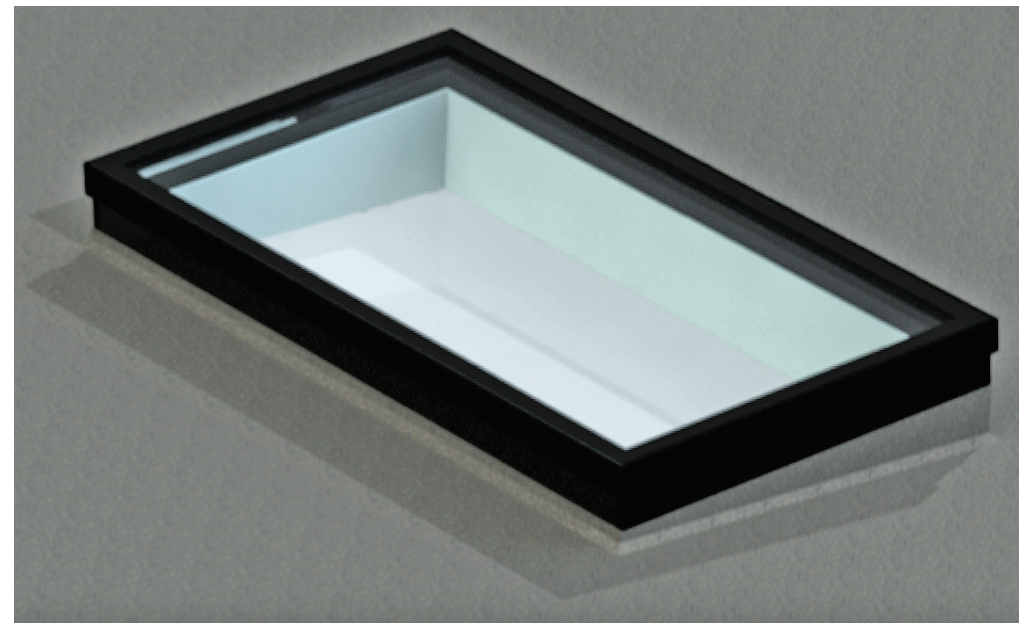


STEP FIVE

SCREW FIX THE ROOFLIGHT TO THE TIMBER KERB

Open the rooflight via the remote control and secure it to your kerb through the preformed holes in the top of the rooflight's base frame with the long screws. For plastering finish guidelines, please follow the roof section fitting guide, included at the end of this document.

Congratulations! Your Hinged Opening Flat Rooflight is now fully installed.

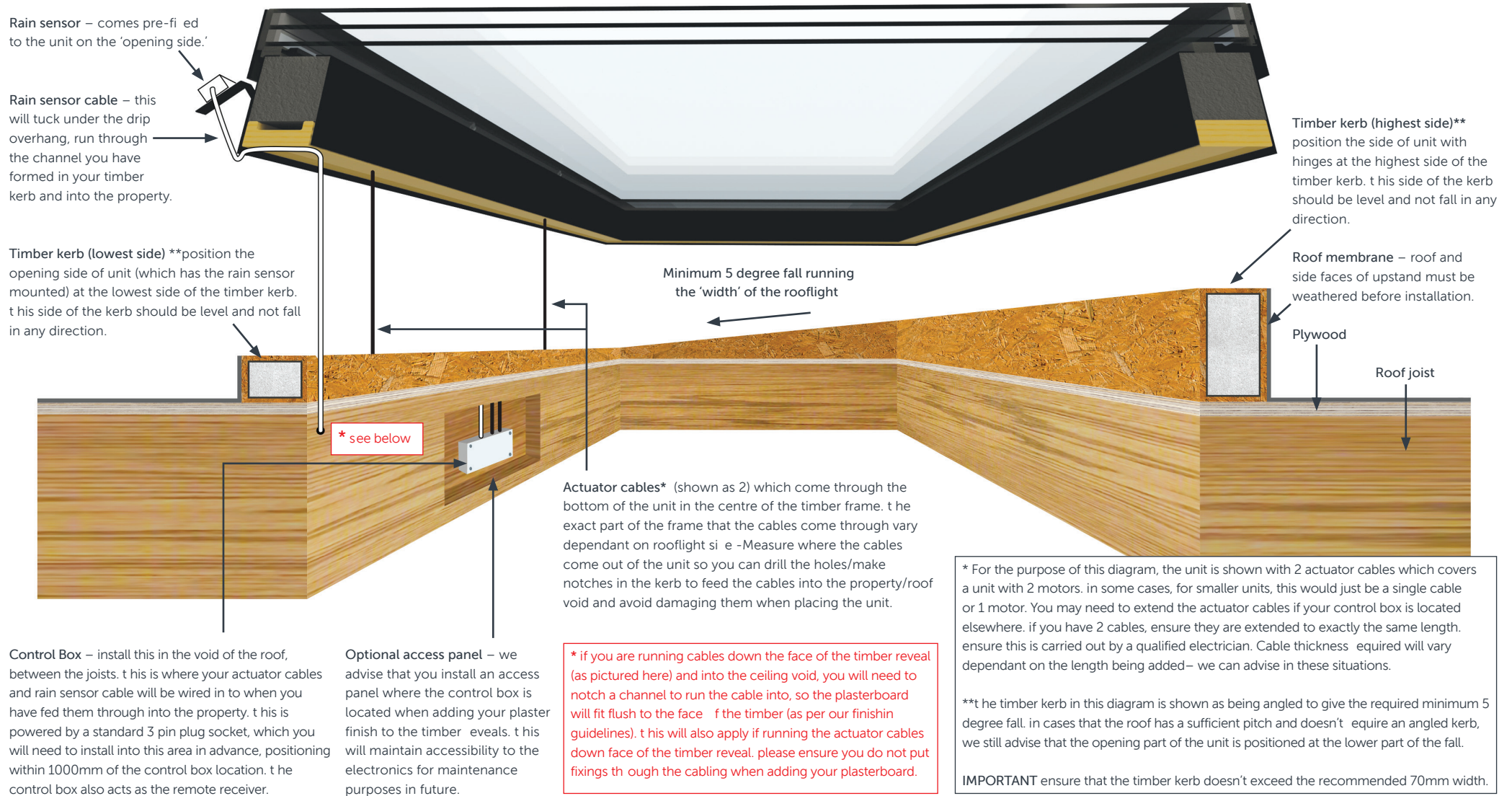


ROOF MAKER

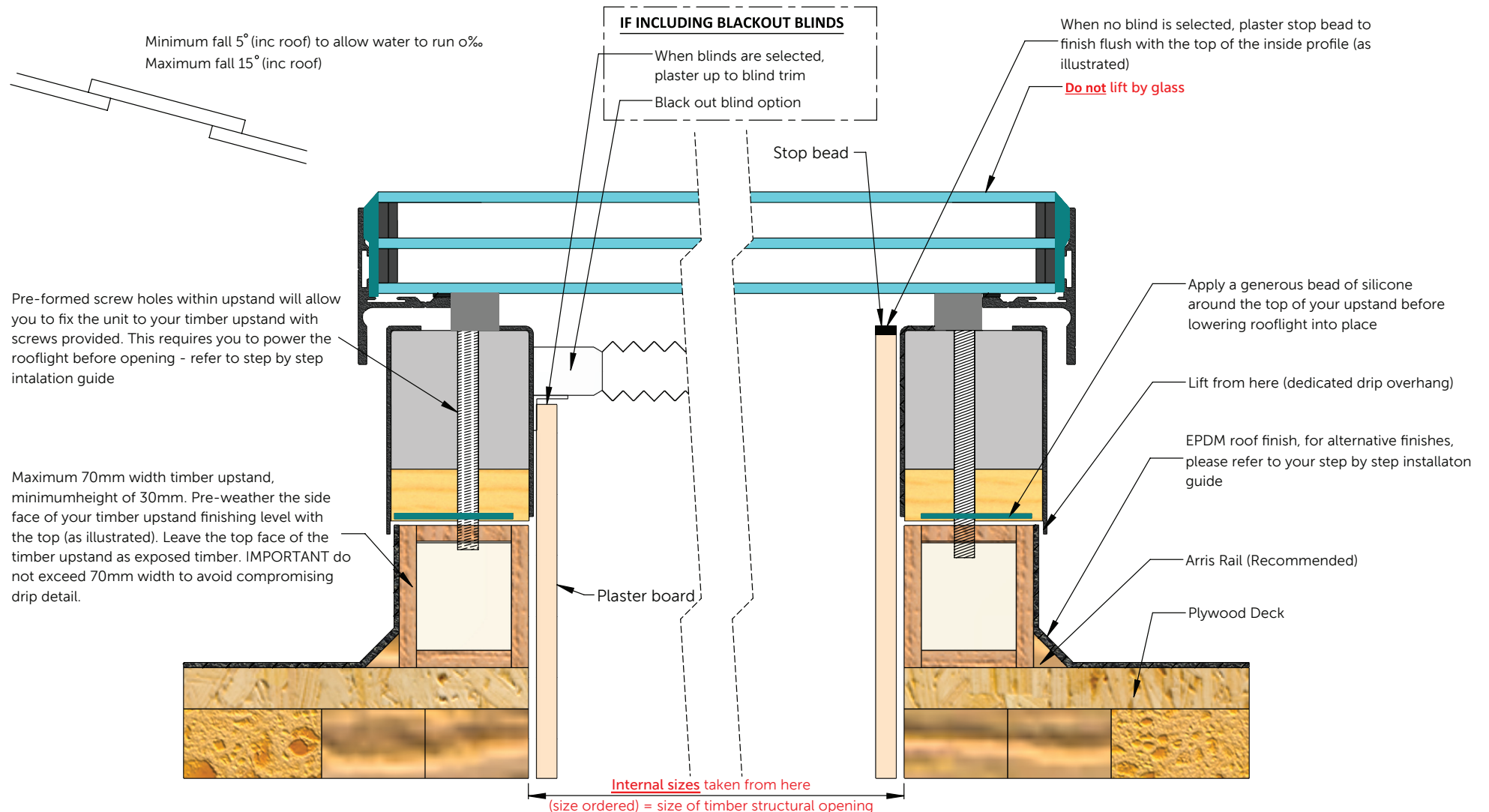
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HINGED OPENING FLAT ROOFLIGHT - CABLE LOCATION GUIDELINES (not to scale)



ROOF SECTION FITTING GUIDE

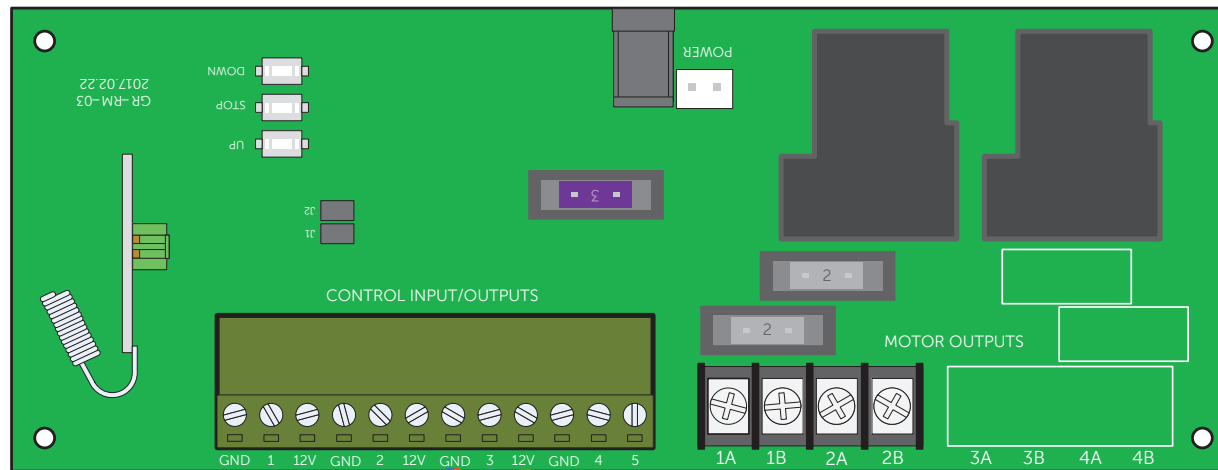


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REMOTE CONTROLLED ROOFLIGHT WIRING GUIDE



Control Input/Outputs Key

GND: Ground (-ve)

12V: **+12V DC regulated supply**

1: Safety Switch Signal Input

Connect to any ground, GND, to stop/switch off the output

2: Thermostat Signal Input

Connect to any ground, GND, to switch output to 'down'

3: Rain Sensor Signal Input

Connect to any ground, GND, to switch output to 'down'

4: Control up

Connect via switch any ground, GND, to switch output to 'UP'

5: Control down

Connect via switch any ground, GND, to switch output to 'DOWN'

Kemo Rain Sensor

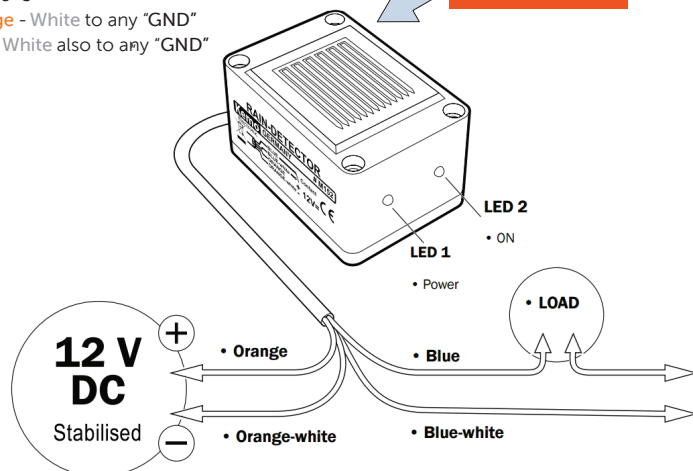
Connect:

Orange to any "12V"

Blue to "3"

Orange - White to any "GND"

Blue - White also to any "GND"



Outputs to actuator(s). If only using one actuator then either of the output pairs 1A and 1B or 2A and 2B can be used. Each numbered output is individually fused and is capable of supplying up to 2.1A continuous at 24VDC. The polarity at each output inverts when swapping between 'up' and 'down'. Outputs 3 and 4 are not used (cables here shown as grey – please see overleaf, which shows where cables need to be wired into the output pairs, which is dependent on the type of rooflight being installed).

WARNING

Ensure that the combined load at the three "12V" output terminals does not exceed 1A. A single Kemo rain sensor should consume less than 0.2A, so if using a rain sensor there should be a further 0.8A available at 12VDC (~9W) to also operate thermostats, safety sensor switches and similar devices. **DO NOT** connect any 12V directly to any GND, or any of 1, 2, 3, 4, 5 to any 12V

REMOTE CONTROLLED ROOFLIGHT WIRING GUIDE

The chart below shows the different wiring combinations you will be working with, dependant on the type of rooflight you are installing. This is specified below each variation of wire shown. Open-Lite has been shown as 2 cables which will always be the case. For sliding rooflights, there will always be 2 cables that you will wire in to output pairs 1A-1B & 2A-2B. For Flat hinged opening and Luxlite hinged opening rooflights, you will either have 1 set or 2 sets of actuator cables dependant on the amount of motors that your rooflight has been allocated. For single motor units, you can use either 1A-1B or 2A-2B and for 2 motors you will use both output pairings.

<div>1A 1B 2A 2B</div> <div></div>	<div>A B A B</div> <div></div> <div>If actuator cabling is grey</div> <div>If actuator cabling is black</div>	<div>1A 1B 2A 2B</div> <div></div> <div>*Communication wires to be connected to each other. All other wires not illustrated above are not required</div>
All Sliding rooflight	Flat Hinged Opening & Luxlite Hinged Opening	Open-Lite (roof access)