ROOF MAKER

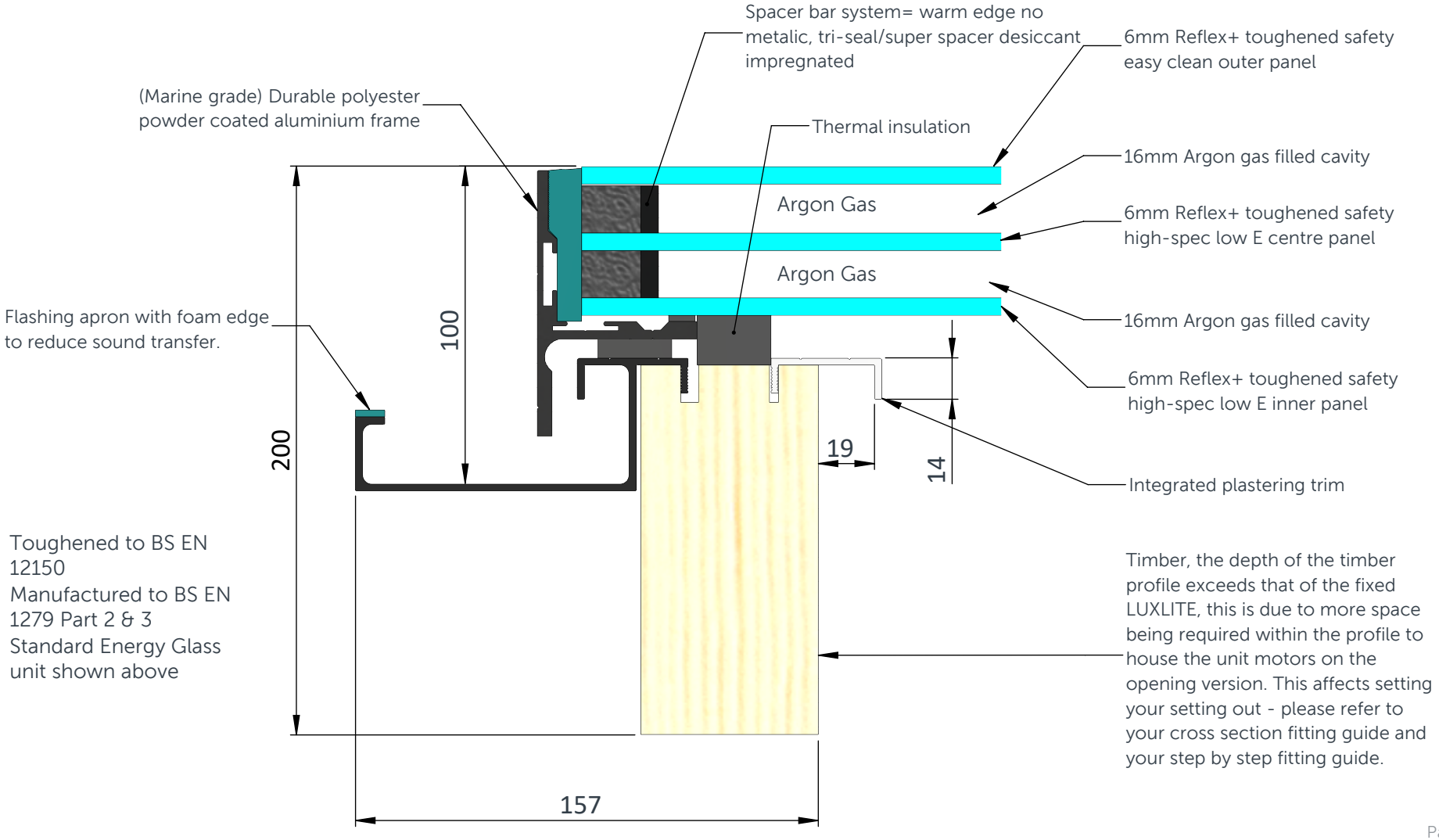
WORLD CLASS ROOFLIGHTS

PRODUCT SPECIFICATION AND INSTALLATION GUIDE

OPENING CONSERVATION LUXLITE™

Call us: 0116 269 6297
Mon-Fri 9-5pm, Sat 10-4pm

OPENING CONSERVATION LUXLITE: STANDARD PRODUCT SPECIFICATION



- Toughened to BS EN 12150
- Manufactured to BS EN 1279 Part 2 & 3
- Standard Energy Glass unit shown above

Timber, the depth of the timber profile exceeds that of the fixed LUXLITE, this is due to more space being required within the profile to house the unit motors on the opening version. This affects setting your setting out - please refer to your cross section fitting guide and your step by step fitting guide.

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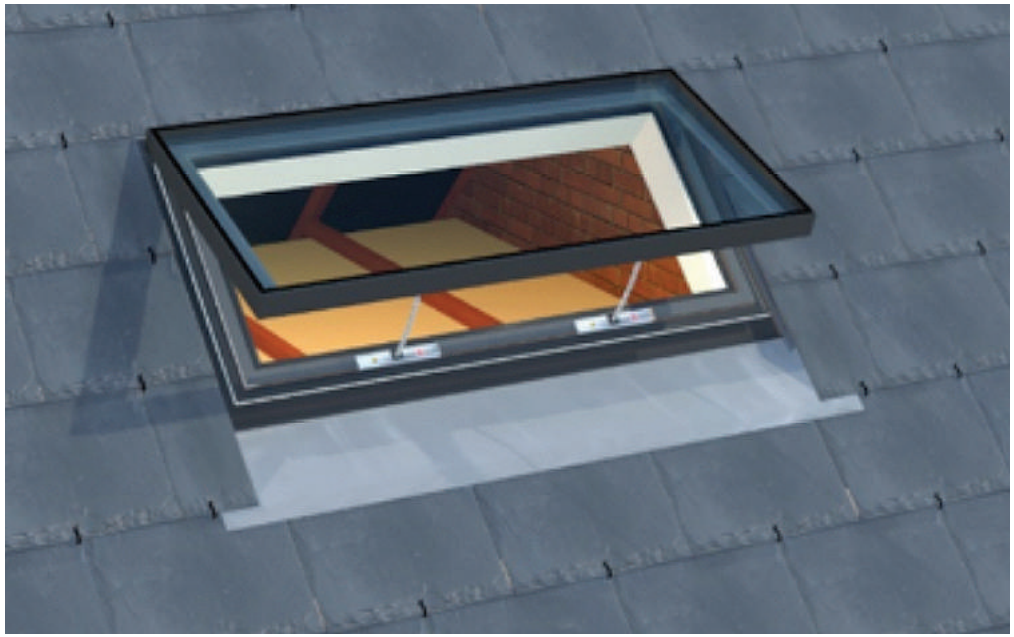
OPENING CONSERVATION LUXLITE®: INSTALLATION INSTRUCTIONS



INSTALLATION GUIDE

Make sure to read through all steps and understand all requirements before beginning assembly.

In addition to your Luxlite® you will need:

- Silicone Adhesive Sealant (high quality; Dow Corning 791 suggested)
- Drill, bits and screws as required

Please take precaution when moving heavy objects and working at height; be sure to use correct equipment.

GUIDE WEIGHTS	
Size (mm)	Weight (kg)
400x400	16
600x600	32
700x900	60
1000x1000	90
700x1400	95
1200x1500	165
1000x2000	185
1200x2400	200
1000x3000	210

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STEP ONE

FIT TRIMMERS TO YOUR JOISTS

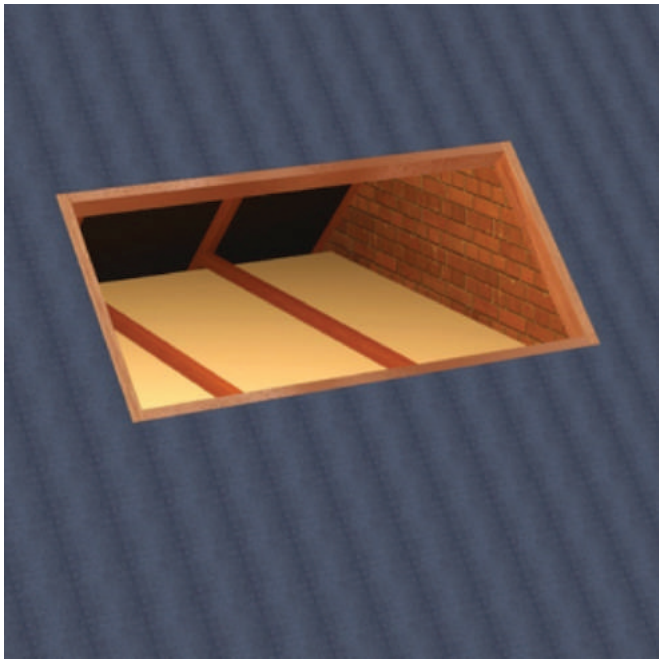
The internal dimensions of the aperture created by your trimmers and joists should be 130mm wider than the Luxlite® you ordered. (e.g. for 2000x1000mm Luxlite®, the internal dimensions of your aperture should be 2130x1130mm). See the cross section fitting guide at the end of this document for more detail.

Fit trimmers across the joists adjacent to the aperture, and a beam across the trimmers, as shown. These additional structural members will support the tile battens around the rooflight.

STEP TWO

FIT UNDERFELT TO YOUR ROOF

Fit underfelt to your roof. This should extend to the rim of the aperture where your Luxlite® will be installed. Seal the underfelt to the timber around the aperture.



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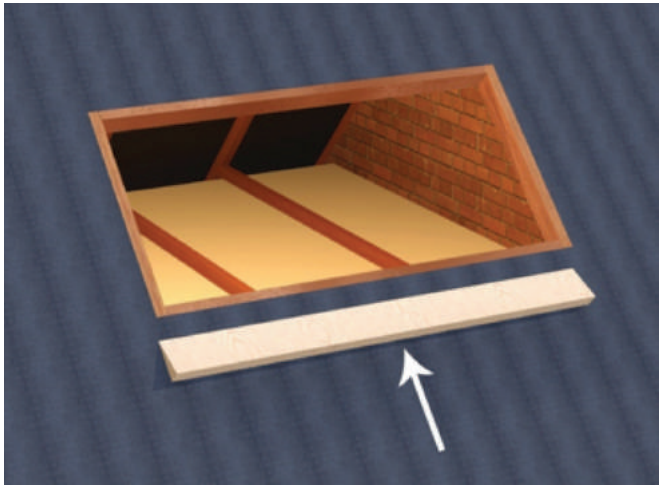
STEP THREE

PREPARE AND FIT A TIMBER WEDGE BELOW THE APERTURE

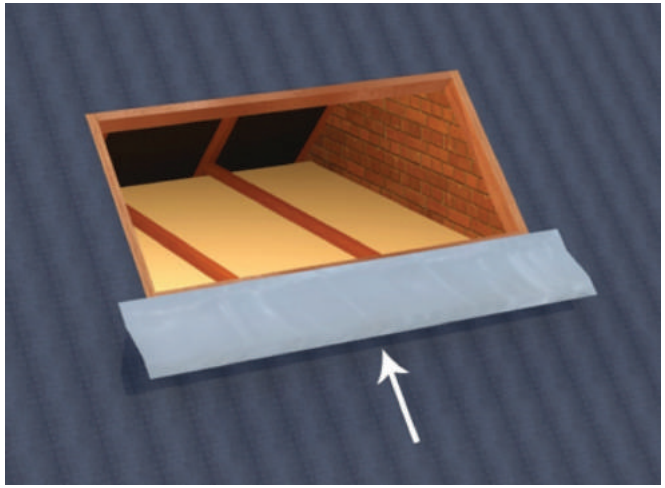
The bottom of the wedge should meet level with the tiles that will be installed later. This can be determined by trial fitting the Luxlite® assembly.



STEP FOUR

COVER THE WEDGE WITH FLASHING

Cover the wedge installed in the previous step with flashing (flashing and wedge not provided).

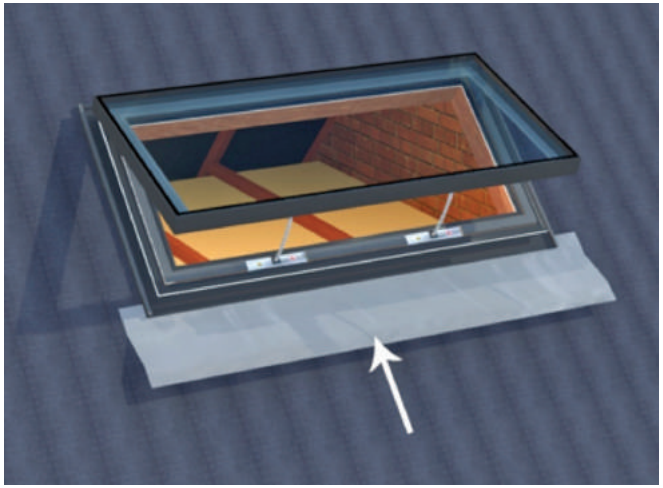


STEP FIVE

BRING YOUR LUXLITE INTO POSITION

Bring your Luxlite® into position and align it so that it is centred on your aperture.

Seal the interface between the Luxlite® and the aperture with silicone.



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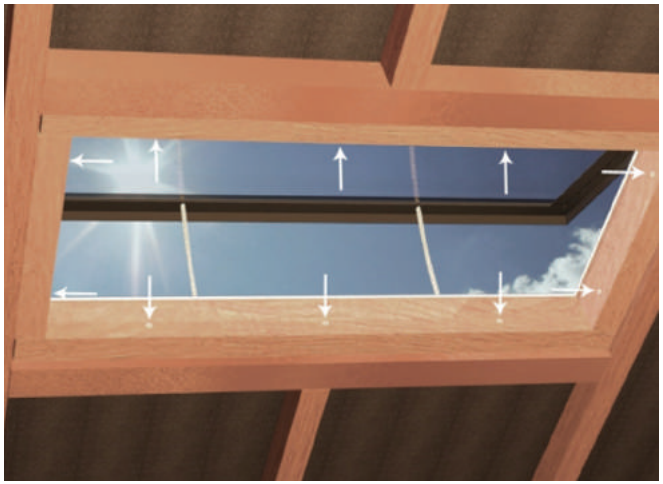
STEP SIX

FIX YOUR LUXLITE® TO THE ROOF

Fix your Luxlite® to your roof. Refer to the assembly section view in the appendix at the end of this document for more detail.



STEP SEVEN

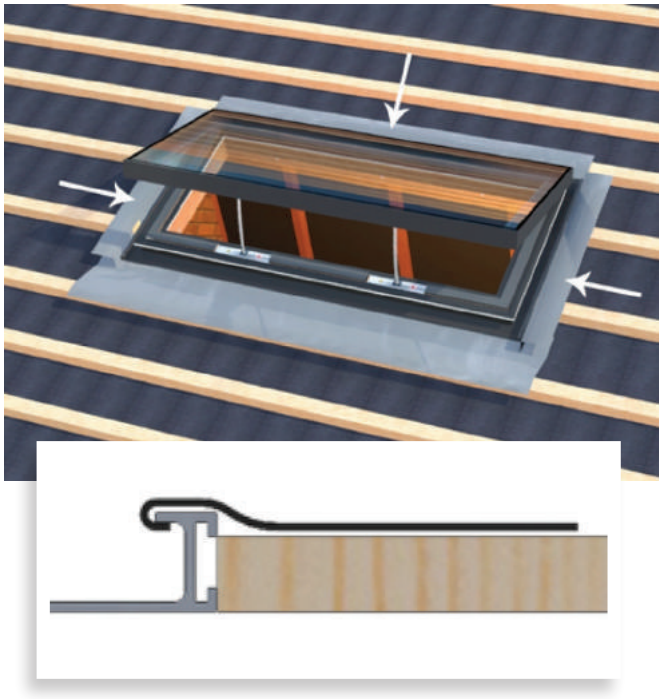
FIT BATTENS TO THE ROOF

Tile battens can now be fitted to your roof. The battens should be flush with the edge of the Luxlite® aluminium apron.

STEP EIGHT

FIT FLASHING TO COVER THE BATTENS

Seal beneath the lip of the apron, drape over battens. Tiles will sit over this flashing. (Note: side flashing is only required when using pantiles).



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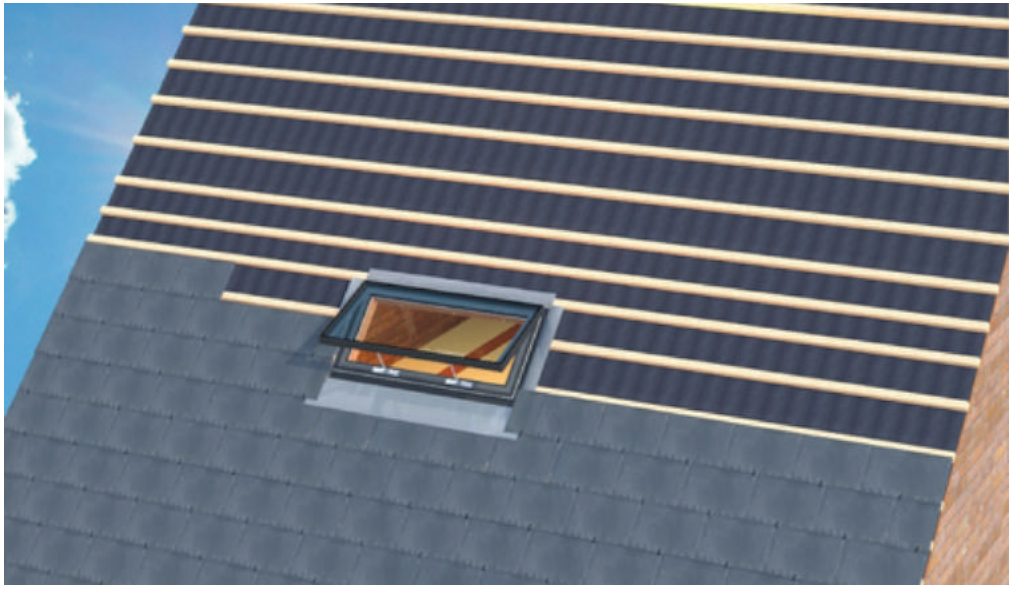
STEP NINE

FIT TILES TO THE ROOF

You are now free to fit tiles to your roof. The Luxlite® has been designed so that your roof tiles can overlap the apron, leaving little aluminium exposed for a minimalistic aesthetic.

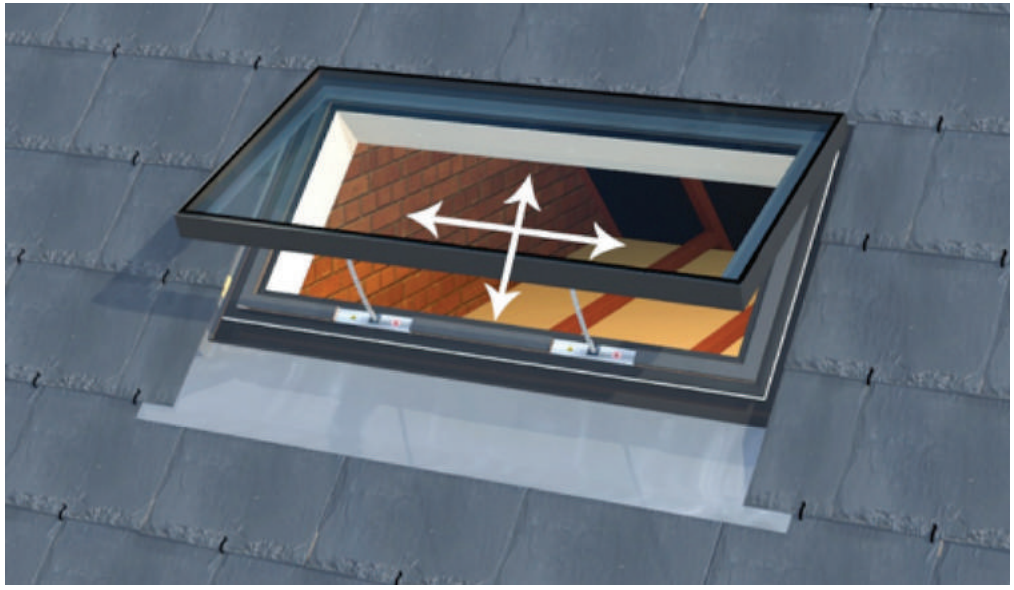


STEP TEN

PLASTERBOARD TO FINISH ASSEMBLY

Apply plasterboard to the internal faces of your aperture. The plasterboard is to be applied up to the internal trim of the Luxlite® (for plastering finish guidelines, please follow the cross section fitting guide, included at the end of this document).

Congratulations! Your Opening Conservation Luxlite® is now fully installed.



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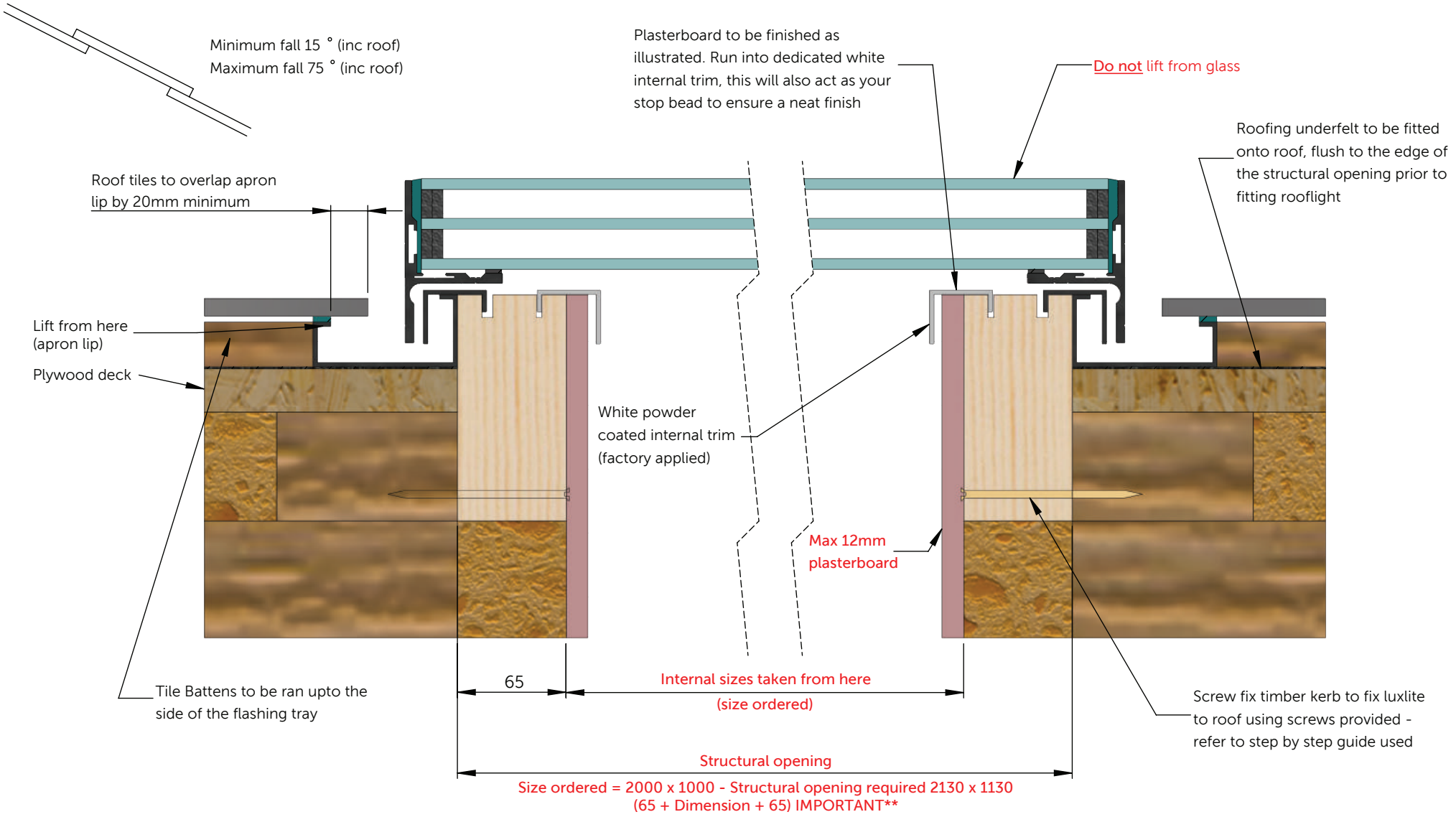
ROOF SECTION FITTING GUIDE



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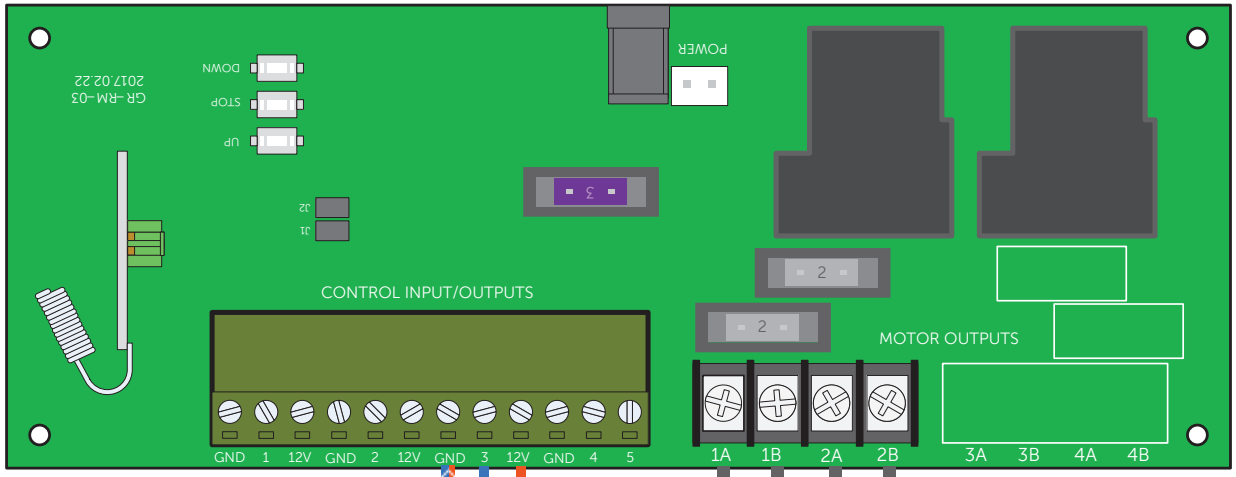
REMOTE CONTROLLED ROOFLIGHT WIRING GUIDE



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 o˜* the output

2: Thermostat Signal Input
Connect to any ground, GND, to switch output to 'down'

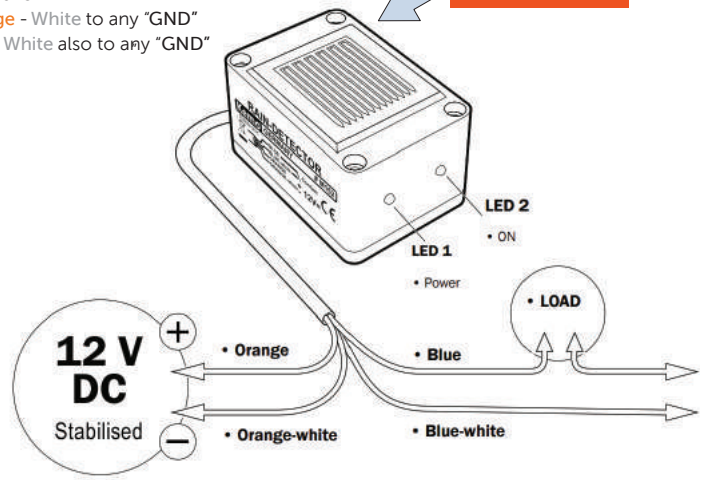
3: Rain Sensor Signal Input
Connect to any ground, GND, to switch output to 'down'

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**

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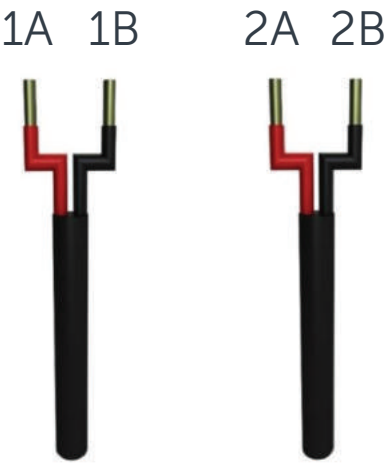
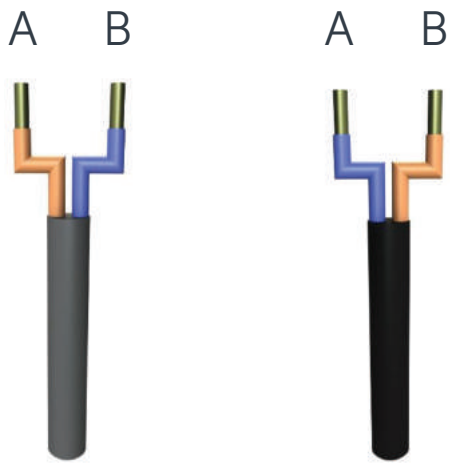
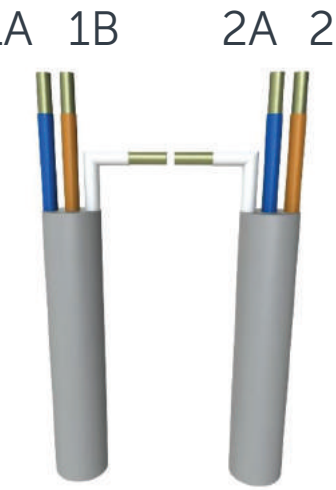
REMOTE CONTROLLED ROOFLIGHT WIRING GUIDE

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.

All Sliding rooflights	Flat Hinged Opening & Luxlite Hinged Opening	Open-Lite (roof access)
	 If actuator cabling is grey If actuator cabling is black	 *Communication wires to be connected to each other. All other wires not illustrated above are not required

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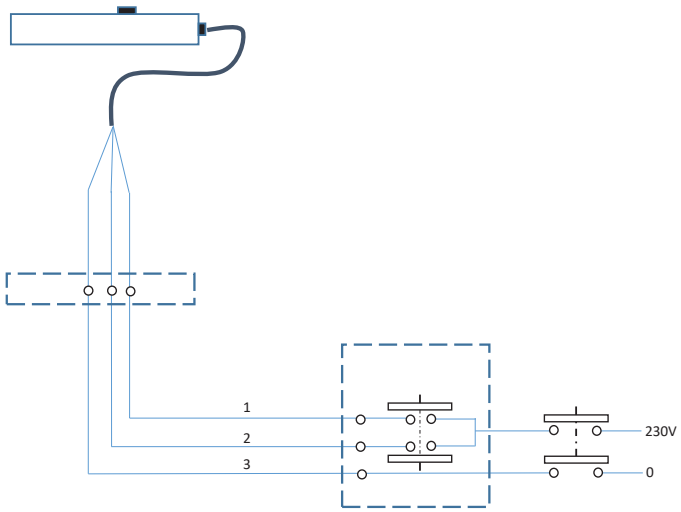
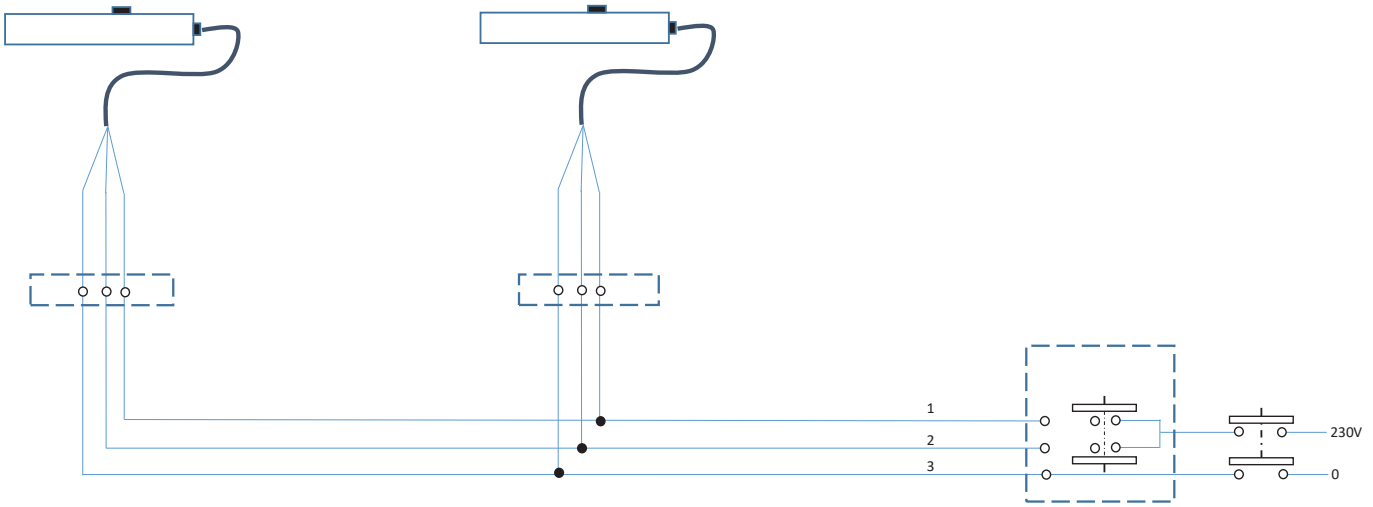
ROCKER SWITCH WIRING DIAGRAMS (3 CORE)

NOTE: THE TYPE OF MOTOR YOU RECEIVE IS JUSTIFIED BY THE SIZE OF THE ROOFLIGHT ORDERED.

3 core - single motor



3 core - multiple motors



Colour	Number	Signal
Brown	1	Opens
Black	2	Closes
Grey	3	Neutral

Refers to both single and multiple motors.

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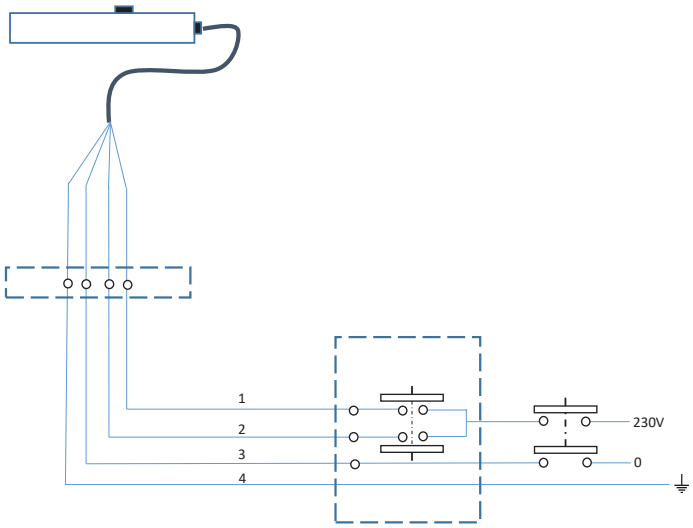
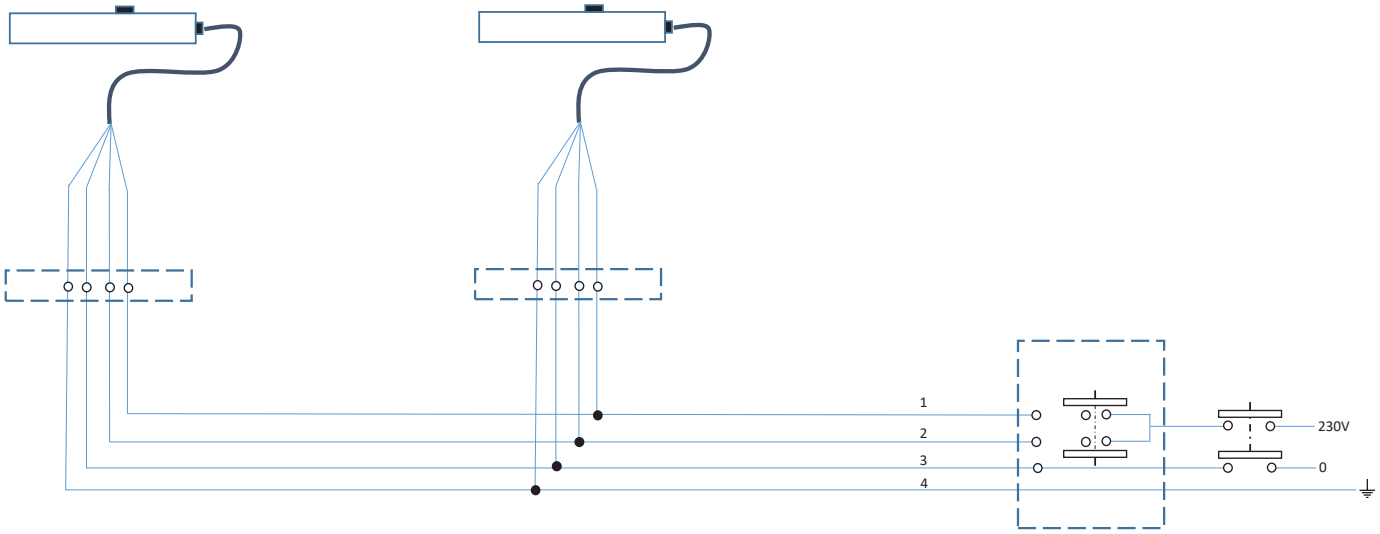
ROCKER SWITCH WIRING DIAGRAMS (4 CORE)

NOTE: THE TYPE OF MOTOR YOU RECEIVE IS JUSTIFIED BY THE SIZE OF THE ROOFLIGHT ORDERED.

4 core - single motor



4 core - multiple motors



Colour	Number	Signal
Brown	1	Opens
Black	2	Closes
Blue	3	Neutral
Yellow/Green	4	Ground

Refers to both single and multiple motors.