



Warning: this product is designed for installation by professional roofing installers, who are responsible for establishing a safe method of work. All risks involved, including those involved in roof access and working around (and if necessary across) an open roof aperture must be assessed, and suitable precautions taken to minimise those risks, with a safe method of work established and documented for each project.

Instructions must be followed **carefully** and in the correct order otherwise warranty may be invalidated and/or the non-fragility of the rooflight may be affected.

Impact drivers must not be used.

TB294

Mardome
Glass Link
Single Modules

Installation Instructions

August 2020

mardome *glassLink*
Modular Flat Glass Rooflights

Mardome Glass Link Installation Instructions Single Modules

Mardome Glass Link is a bespoke product. These instructions illustrate a typical installation - actual component sizes and jointing details may vary. Refer to Brett Martin Daylight Systems Technical Department for items specific to the installation being carried out.

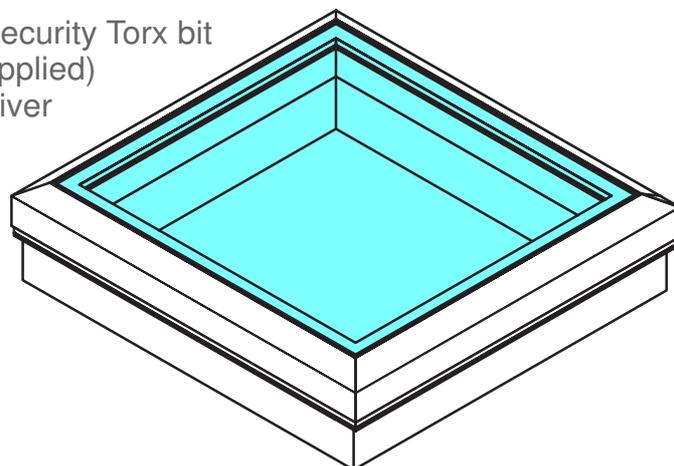
Contents:

1. Unit Handling Rules
2. Unpacking Modules
3. Part identification and Supplied Fixings
4. Typical installation sequence
5. Appendices
 - o A - Rooflights that include opening modules
 - o B - Rooflights with 15°-35° pitch across span
6. Wiring Diagrams - 230V C20 / 230V HCVA / 24V
7. Parts List (supplied separately)

FOR OPENING UNITS
Cable will exit through the bottom of the frame.
Ensure upstand is prepared before installation begins.
Refer to approval drawing for cable positioning detail.
If approval drawings do not specify cable exit point, please contact BMDS.

Equipment Required: (not supplied)

- Tape measure
- Cordless Drill (An angled drill may be required where rooflights are in close proximity to anything else on a roof)
- Sealant gun
- Additional T27 Security Torx bit (if required, 1 supplied)
- 8mm Hex Nut driver



FOR TECHNICAL
INFORMATION / QUERIES
PLEASE CONTACT YOUR SUPPLIER
www.brettmartin.com



Daylight Systems

The manufacturer operates a policy of continuous product improvement, and reserves the right to alter specifications at any time without notice. Every effort has been taken to ensure all details contained in this document are correct at time of going to press, but this document should be used only as a guide and does not in any way form part of a contract or warranty. It is the customer's responsibility to ensure that the product is suitable for the actual conditions of use, which are beyond the control of the manufacturer.

Unit Handling Rules

CRANE LIFT RULES

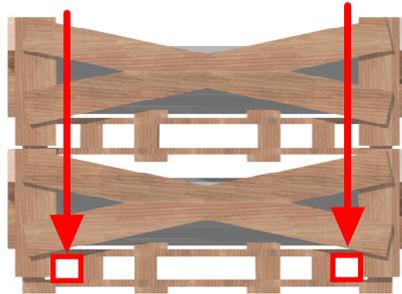
INDIVIDUAL WEIGHT
LESS THAN 120KG:
2 STACK MAXIMUM



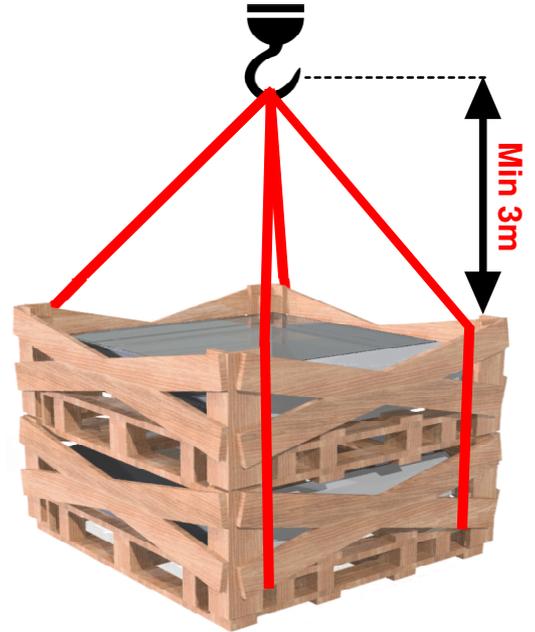
INDIVIDUAL WEIGHT
MORE THAN 120KG:
DO NOT STACK



PLEASE NOTE:
ALL CRANE
OPERATIONS MUST BE
CONDUCTED BY A
**SUITABLY TRAINED
AND QUALIFIED
PERSON**



ALWAYS STRAP AT
EDGE OF PALLETS



THE LIFTING HOOK
SHOULD BE NO LESS
THAN 3M ABOVE THE LID

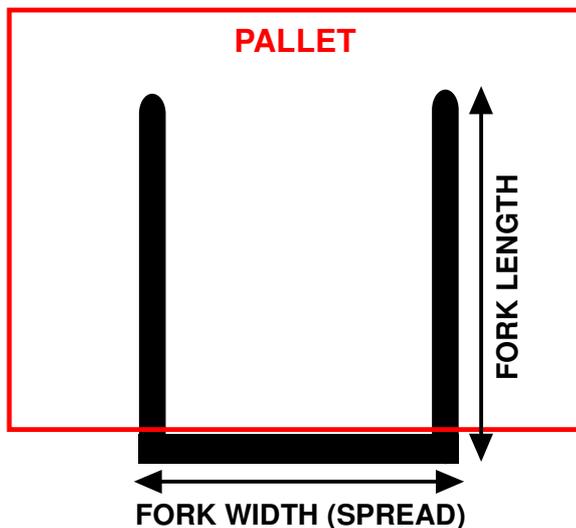
FORK LIFT RULES

DO NOT LIFT WITH A FORK WIDTH (SPREAD) OR
LENGTH LESS THAN THE MINIMUM SET OUT ON
APPROVAL DRAWINGS.
IF IN DOUBT PLEASE CONTACT SUPPLIER.

INDIVIDUAL WEIGHT
MORE THAN 120KG:
DO NOT STACK



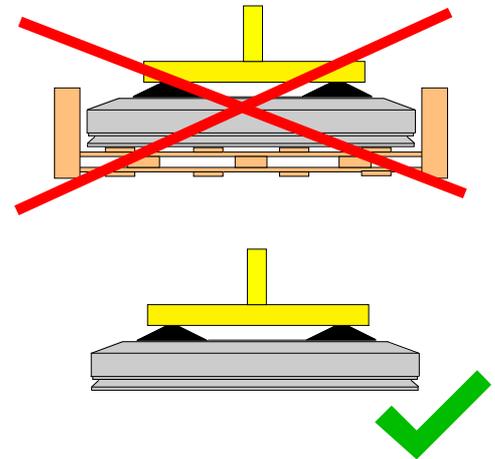
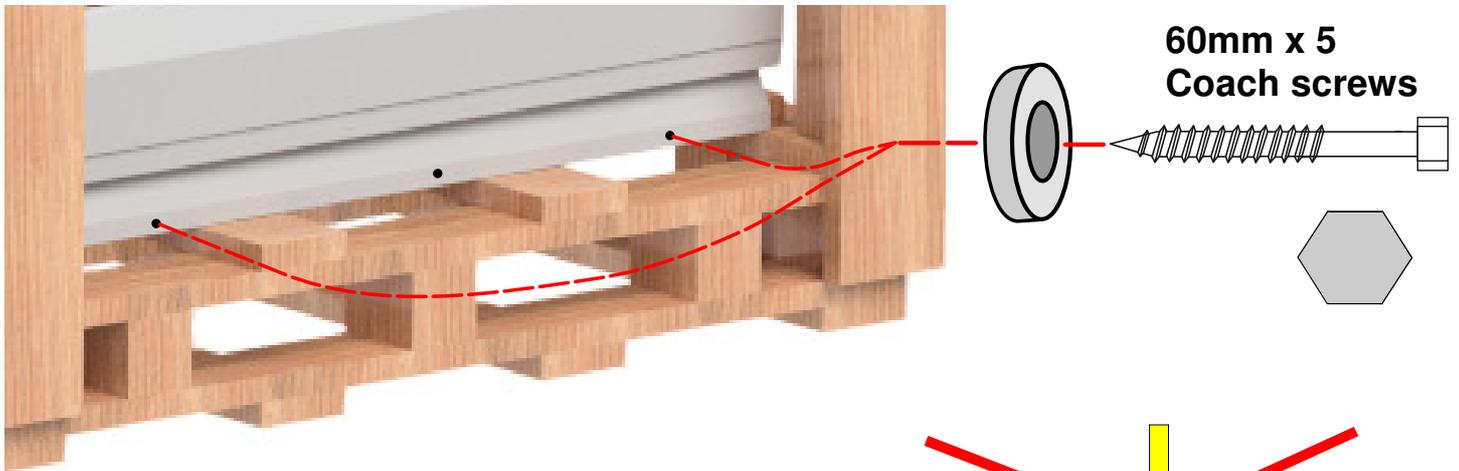
INDIVIDUAL WEIGHT
LESS THAN 120KG:
2 STACK MAXIMUM



Brett Martin Daylight Systems cannot be held responsible for any damage caused as a result of incorrect handling

Unpackaging Modules

1. Using a 8mm Hex Nut Driver, unscrew and remove all the coach screws and spacer washers from the module.



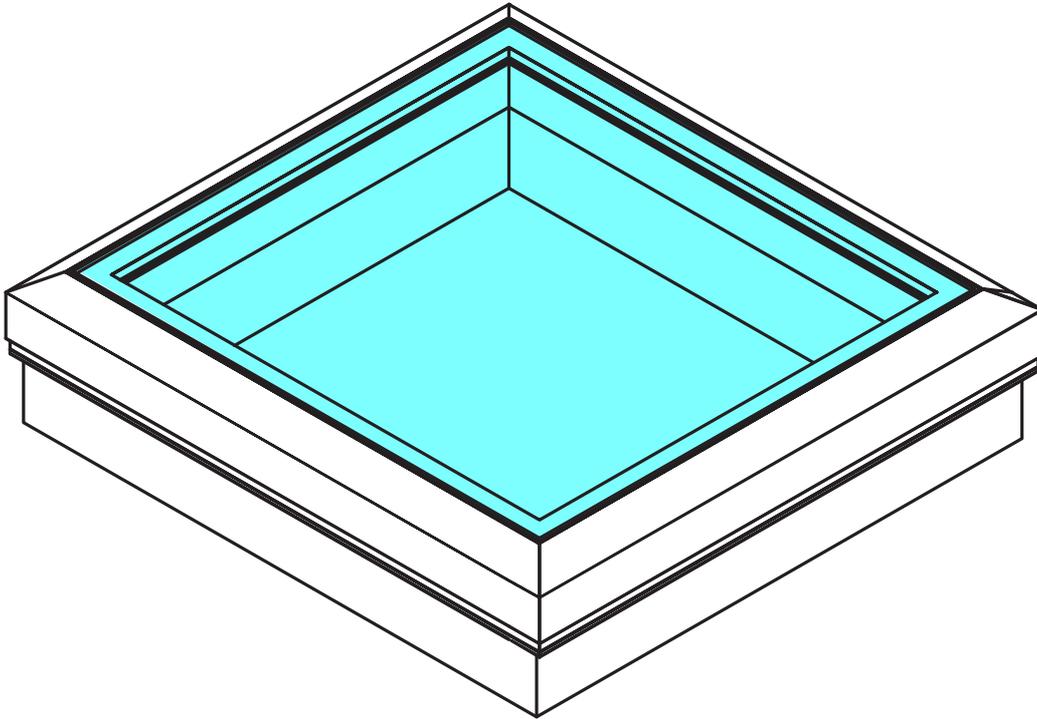
When using a Glass Lifter ensure to unscrew module from pallet before lifting, if lifting with pallet is required, a crane/forklift must be used



Brett Martin Daylight Systems cannot be held responsible for any damage caused as a result of incorrect handling.

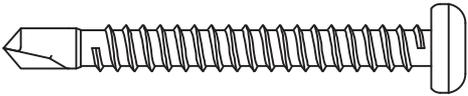
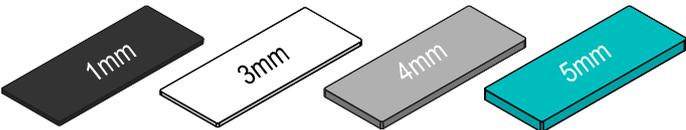
Part Identification

Please refer to corresponding parts list, supplied separately, which details quantities of parts specific to the installation being carried out



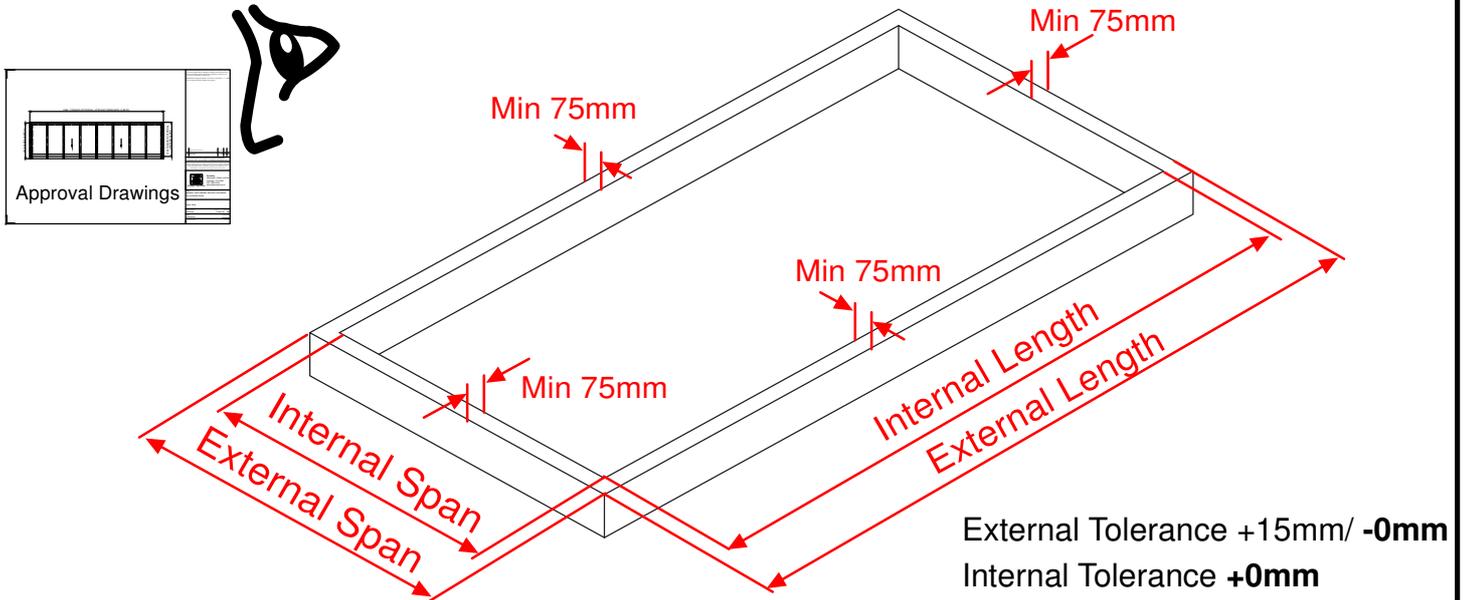
A Rooflight

Supplied Fixing Accessories

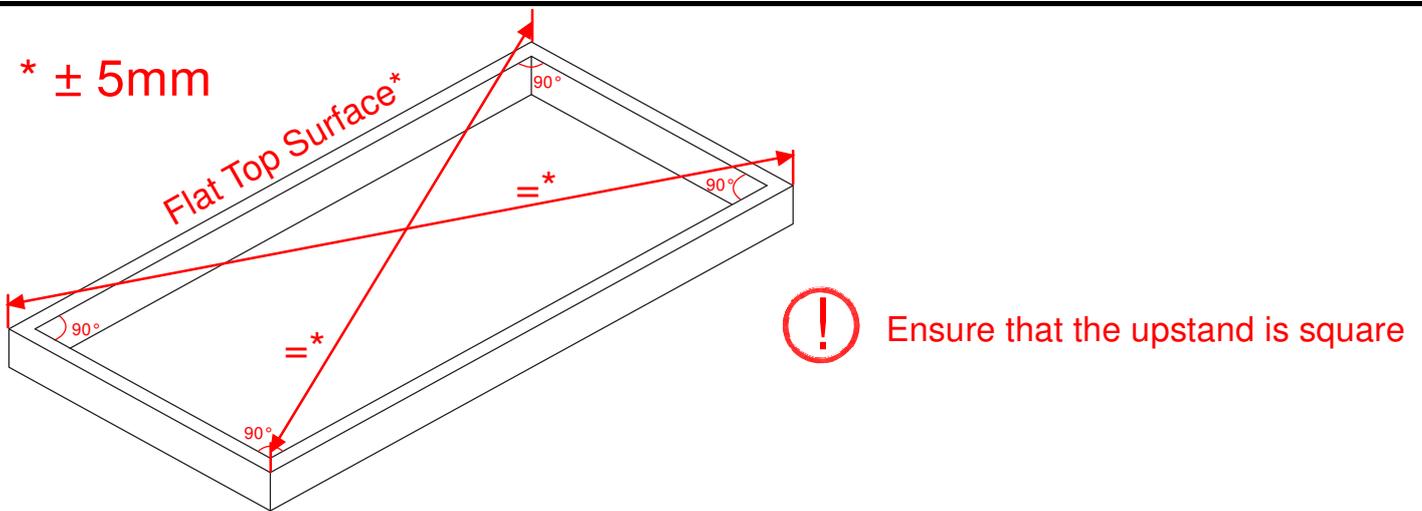
Item	Description	Locations
 	T27 Self drill Security Torx screw 50mm	Upstand
	Aluminum Spacer 12mm x 5mm	
	Sealing Washer	
	40 x 120mm Plastic Packers Assorted sizes (for side fixing application only)	

1 Check all parts collate with Installers Parts List
(supplied separately)

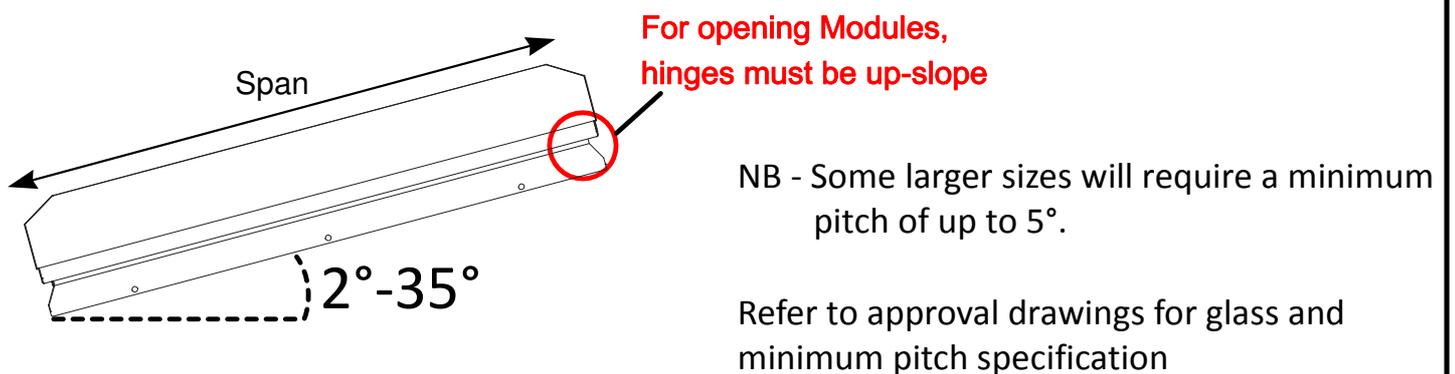
2 Check internal and external upstand dimensions with
reference to BMDS approval Drawings



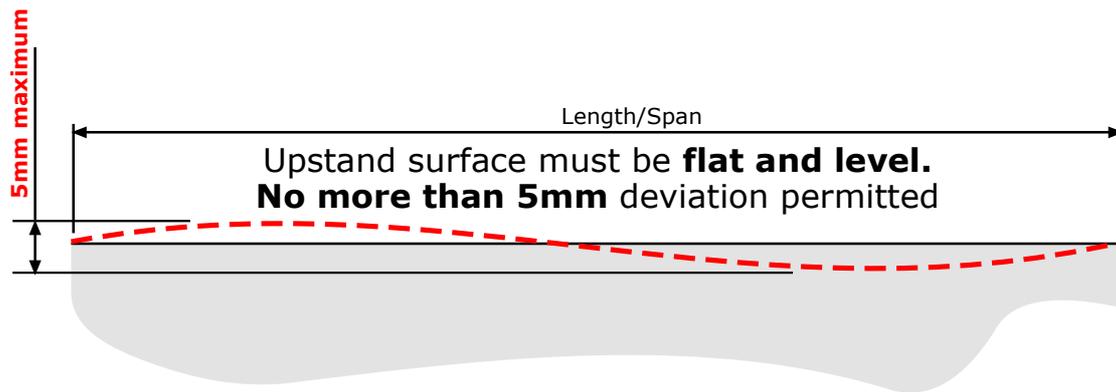
3 Compare diagonal upstand measurements



4 Check the pitch of the rooflight length and span
(Refer to Appendix B if span pitch is between 15° and 35°)



5 Check the flatness of the upstand



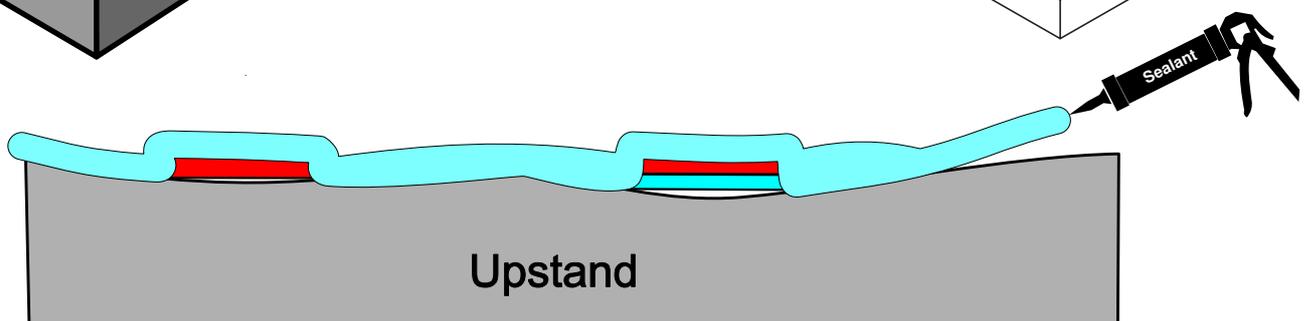
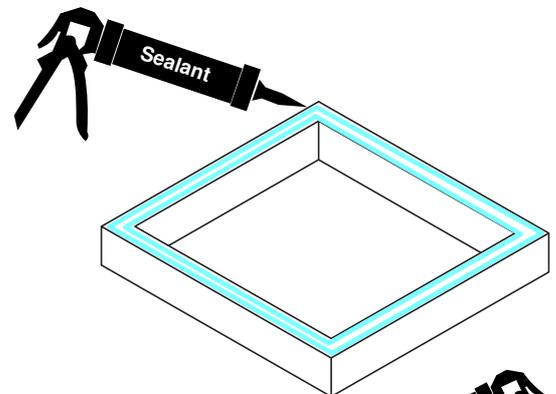
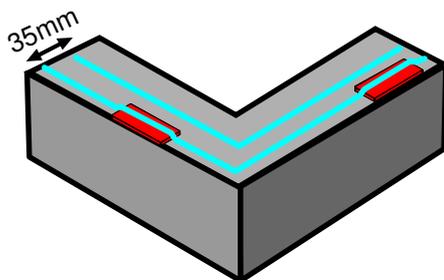
Upstand fixings must be flush



Upstand must be fully weatherproofed

6 Apply sealant to the upstand

1. Apply a 10mm bead of sealant on the outside edge of the top surface of the upstand, offering full contact between rooflight and upstand, covering any undulations.
2. Apply a second bead of sealant 35mm in from the first.



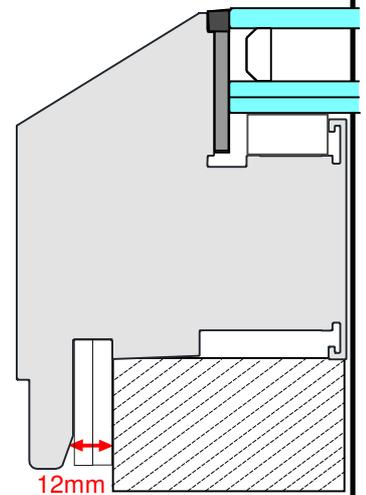
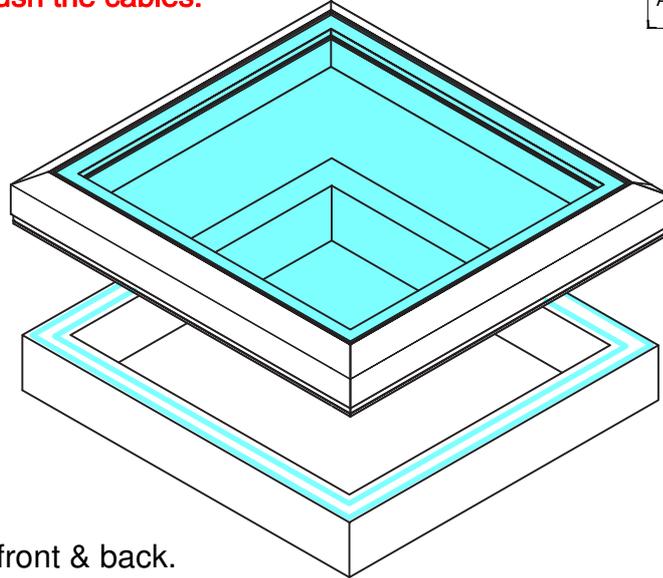
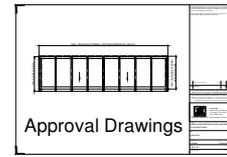
Ensure enough sealant is applied to fill all undulations.
Sealant must be applied on top of the packers.

7 Place module onto the upstand

 Take care when placing modules to avoid injury

For opening units power cable must be routed into building as required. Be careful not to crush the cables.

Cable will exit through the bottom of the frame. Refer to approval drawing for cable positioning detail.

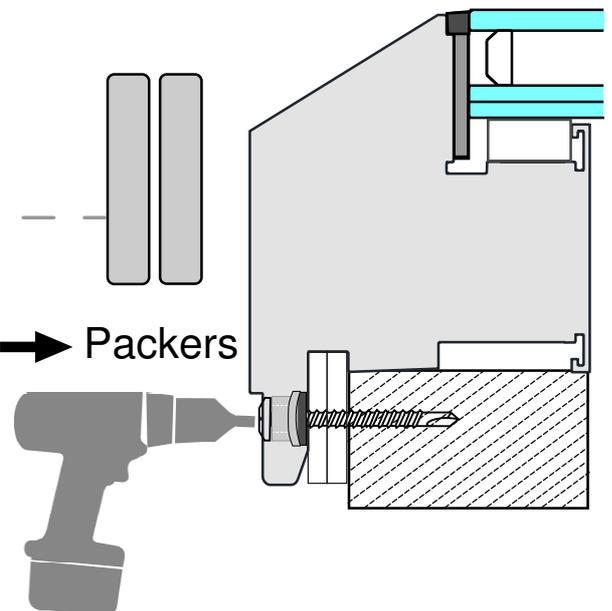
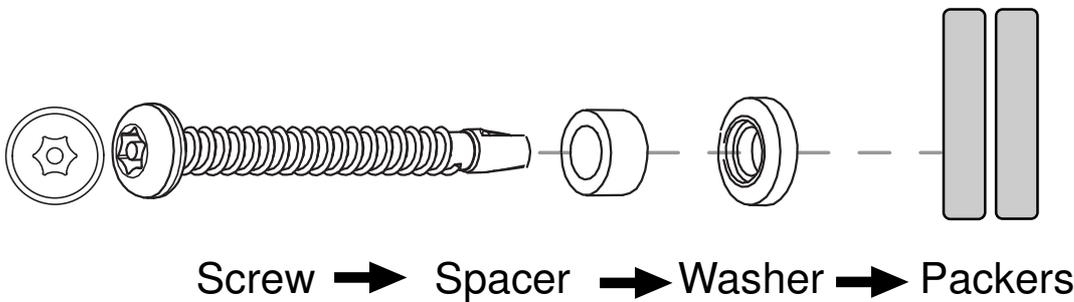


- Ensure an even gap at the front & back. Module must be parallel to the upstand.
- Nominal 12mm spacing between frame and upstand. (adjust as necessary to accommodate any variation in upstand dimensions)

8 Fix the module to the upstand

- Insert all fixings through supplied packers
- Screw heads should finish flush with external profile

 DO NOT OVERTIGHTEN FIXINGS

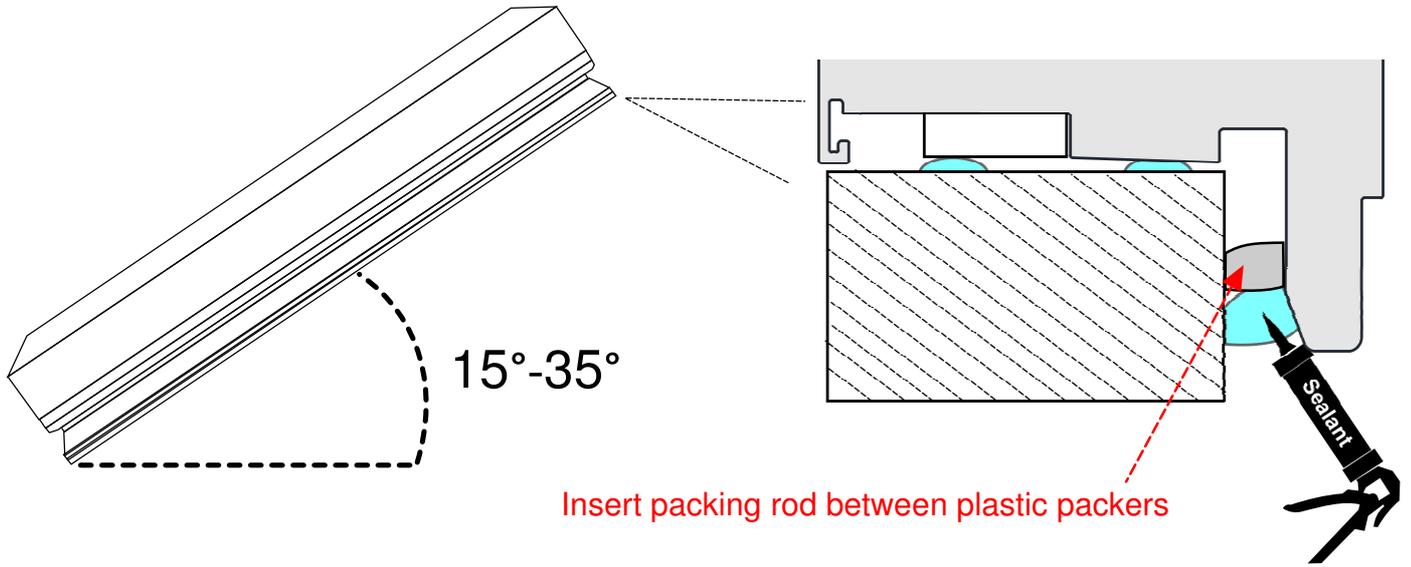


 Required packers will depend on upstand dimension tolerance.

APPENDICES

FOR ROOFLIGHTS WITH 15°-35° PITCH ACROSS SPAN

A Insert packing rod and apply a bead of sealant at the ridge



Mardome Chain Drive Unit Wiring Diagram for M&E Installer
please refer to BMDS approval drawings for Actuator type.

TF44 Controller

If the TF44 option has been supplied, refer to the separate wiring instructions supplied with it.



Please note that all wiring and commissioning must be undertaken by a *suitably trained and qualified person*.

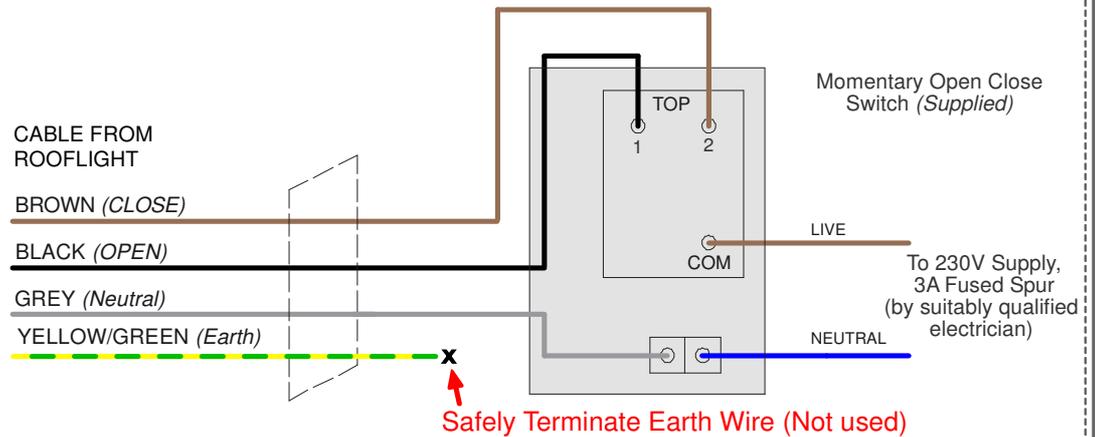
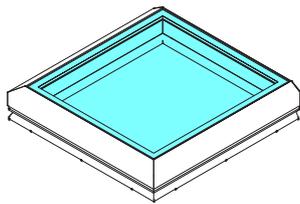
Additional care must be taken when pairing the rain sensor to avoid any risk of electric shock. The installer must ensure that all wiring runs, cable thickness and earthing etc. meet current regulations.

230V (AC) actuators must not be operated by supplying continuous power. They must only be operated using a momentary control switch (as supplied) or by using a suitable controller with a timed pulse for the opening period required (approx 60 to 120 seconds for full operation). Feeding continuous power to a 230V actuator will damage the unit over time and void any warranty. Actuators have a 12 month limited warranty from delivery of the unit.

Electrical equipment, accessories and packaging should be recycled for environmental protection. Do not dispose of electrical equipment in household waste!

TYPE 1 - 230V C20

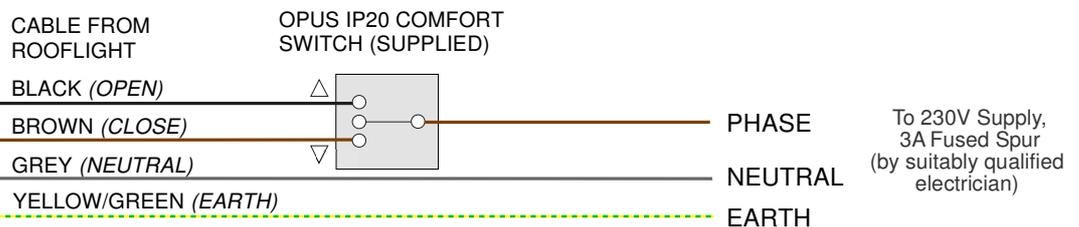
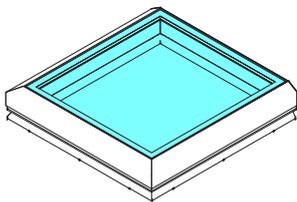
Wall Switch



TYPE 2 - 230V HCVA

Wall Switch

8mm Hex Nut driver



TYPE 3 - 24V

24V transformers are to be located and mounted separately from the rooflight by an electrical contractor.

DO NOT CONNECT 230V SUPPLY DIRECTLY TO ROOFLIGHT

FLEX1 ACDC TRANSFORMER (SUPPLIED)

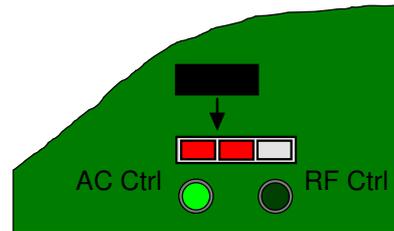


Cable entry via glands (not supplied)

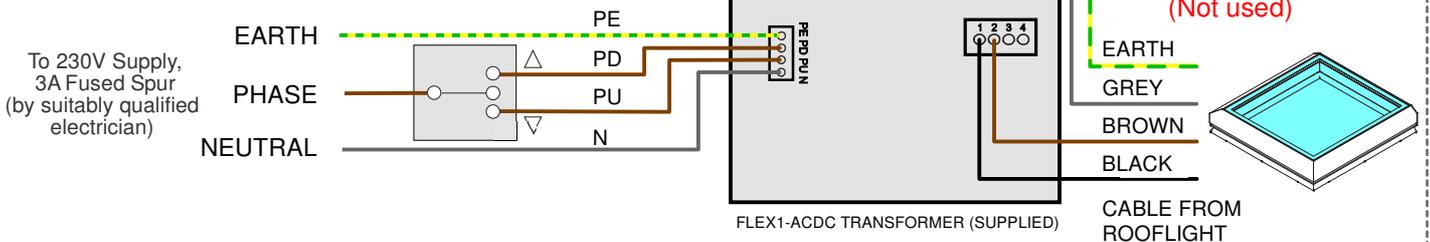
24V - Wall Switch & Wall Switch With Rain Sensor

Transformer Settings (Wall Switch)

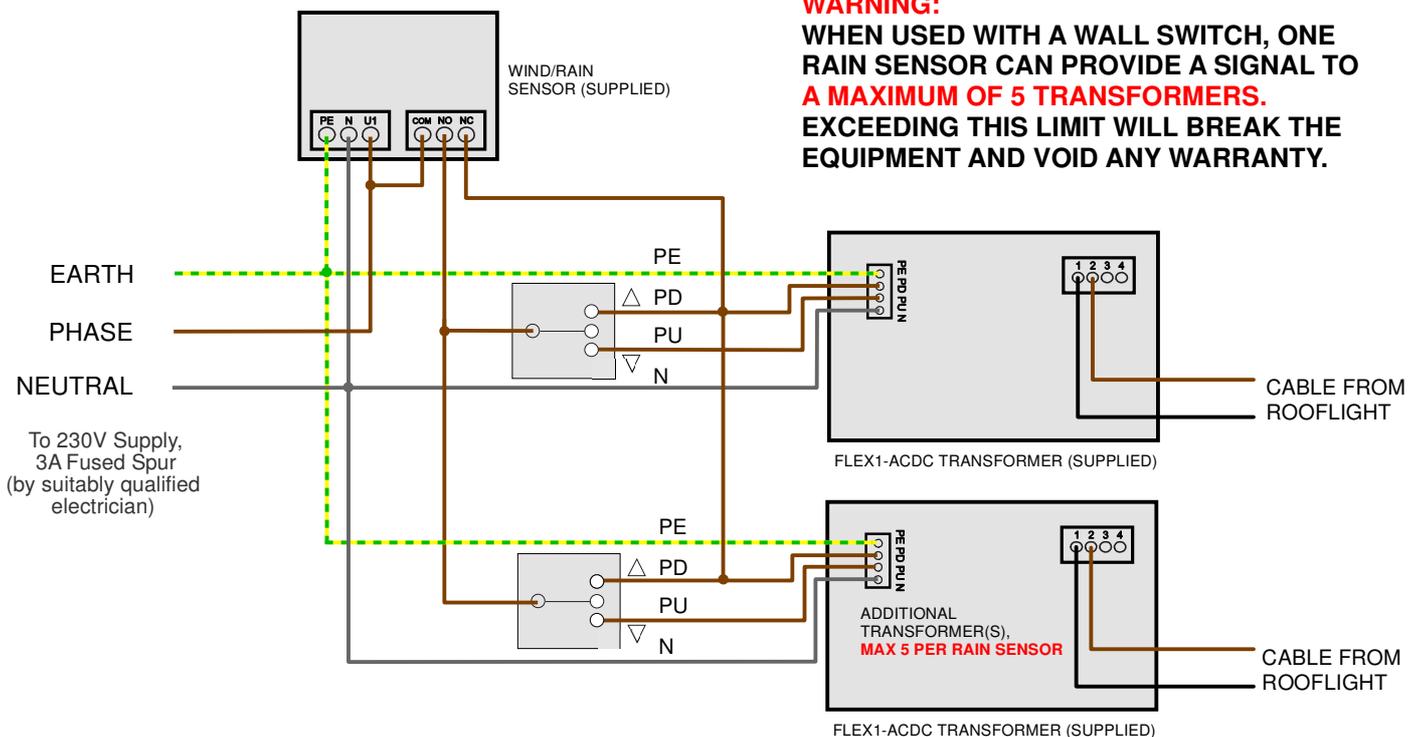
Before supplying power to the transformer, ensure the centre and left hand pins below the RF module terminal are connected using the black plastic connector supplied.



Wall Switch



Wall Switch & Rain Sensor



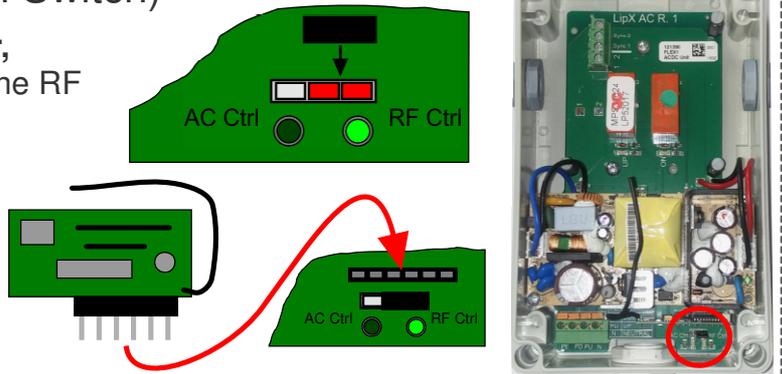
FOR 24V RAIN SENSOR ONLY. FOR 230V RAIN SENSOR REFER TO TB194

24V - Remote & Remote With Rain Sensor - Wiring and Mounting

Transformer Settings (Without Wall Switch)

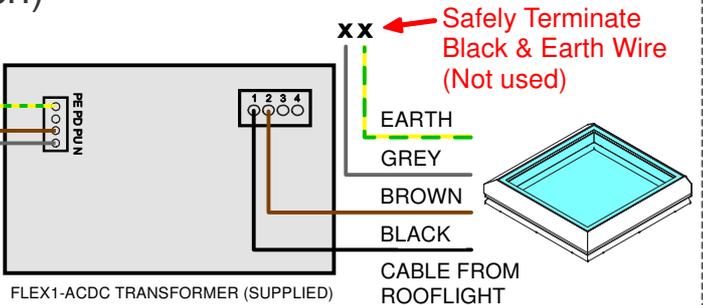
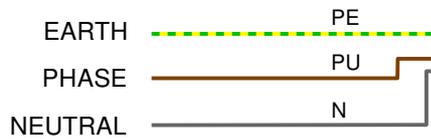
Before supplying power to the transformer, ensure the centre and right hand pins below the RF module are connected using the black plastic connector supplied.

Insert the RF receiver (supplied with the remote) into the terminal labeled RF Module.



Transformer Wiring (Without Wall Switch)

To 230V Supply,
3A Fused Spur
(by suitably qualified electrician)



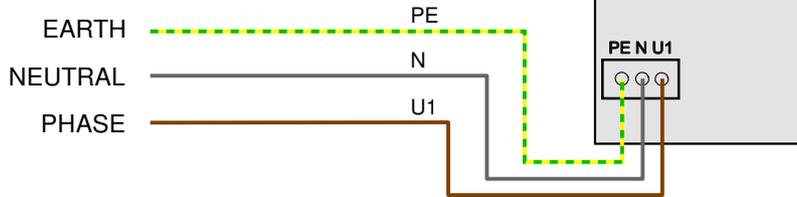
PLEASE SEE BELOW FOR RAIN SENSOR INSTALLATION

FLEX1-ACDC TRANSFORMER (SUPPLIED)

Rain Sensor Wiring (Without Wall Switch)

ROOFLIGHT & RAIN SENSOR TO BE WIRED TO SEPARATE 230V POWER SUPPLY!

To 230V Supply,
3A Fused Spur
SUITABLE FOR OUTDOOR USE
(by suitably qualified electrician)

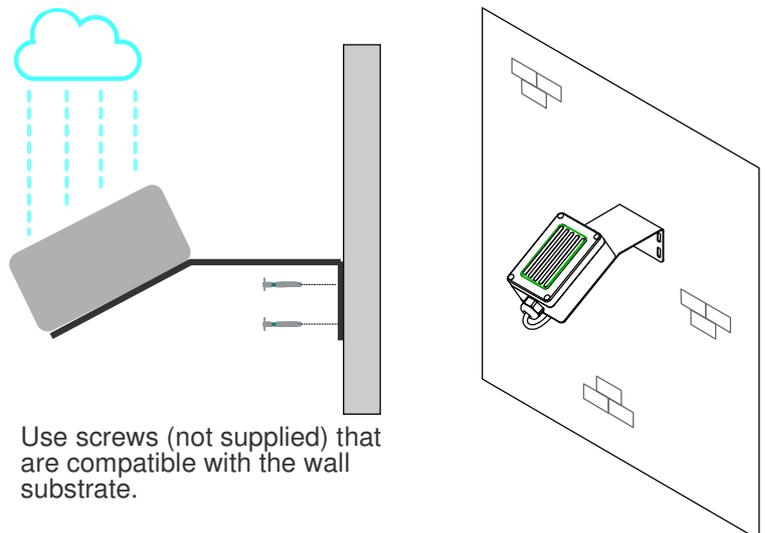


AR-24/250 RAIN SENSOR (SUPPLIED)



Rain Sensor Mounting

Rain Sensor mounted on a vertical exterior surface of the building, up to 400m from transformer(s) (with no obstacles around, however any construction around the sensor will influence the distance)



Sensor must be exposed to rain, so must not be mounted under an overhanging structure

Use screws (not supplied) that are compatible with the wall substrate.

FOR 24V RAIN SENSOR ONLY. FOR 230V RAIN SENSOR REFER TO TB194

24V - Remote & Rain Sensor - Pairing

Rain Sensor Pairing (Without Wall Switch)

WHEN USED WITH A REMOTE, ONE RAIN SENSOR CAN BE PAIRED TO A MAXIMUM OF 20 TRANSFORMERS.

ALL PAIRED TRANSFORMERS MUST BE WITHIN RANGE, SEE RAIN SENSOR MOUNTING FOR MORE INFORMATION.

1. When connected to mains, set the “Learn TX” DIP switch (located in the rain sensor) to ON.
2. Press and hold the program button (located in the transformer) until the red LED next to the button lights up. When the red LED lights up, release the program button.
It is important to release the button as soon as the LED lights up as holding it down for too long will clear the memory, if this happens please see below for pairing remote.
3. Set the “Learn TX” DIP to “OFF” afterwards, and then test the rain sensor.

LEARN TX DIP SWITCH
(AR-24/250 RAIN SENSOR)



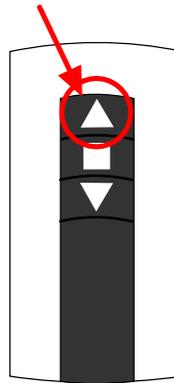
PROGRAM BUTTON
(FLEX1-ACDC TRANSFORMER)

Remote Pairing

Remotes come pre-paired to a receiver that should be mounted in the desired transformer.
If you want to pair a remote to multiple receivers, follow the instructions below.

1. Press and hold the program button (located in the transformer) until the red LED next to the button lights up. When the red LED lights up, release the program button.
2. Press UP on the remote, the LED will illuminate and turn off after one blink. The remote is now paired.

UP button



PROGRAM BUTTON
(FLEX1-ACDC TRANSFORMER)

Clearing Receiver Memory

You can clear ALL the paired devices from a receiver, to do this follow the steps below and then re-pair the desired equipment.

1. Press and hold the program button (located in the transformer) until the red LED next to the button lights up. Continue to hold the program button until the LED goes off.
2. The memory has now been deleted for ALL paired devices.