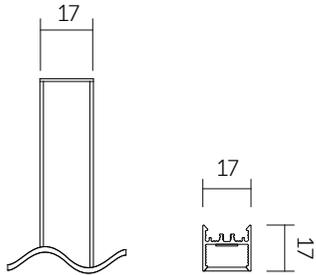
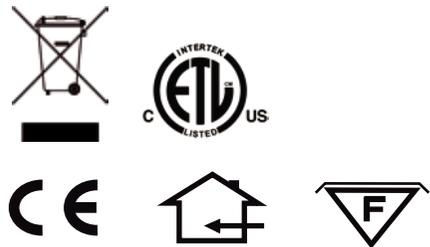


installation instructions
20 linear surface mount:

SM20LED-(mm)



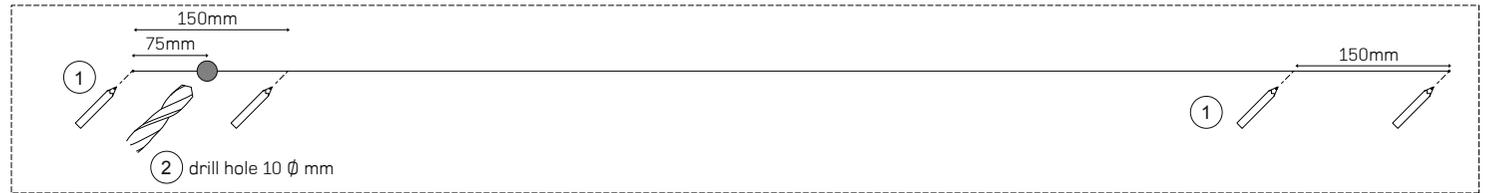
- ⚠ Ensure all mains power is switched off at source.
- ⚠ Do not attempt installation or maintenance on electrically live product.
- ⚠ Installation and maintenance to be carried out only by a qualified electrician or electrical contractor.



Registration number is WEE/FG0362QY

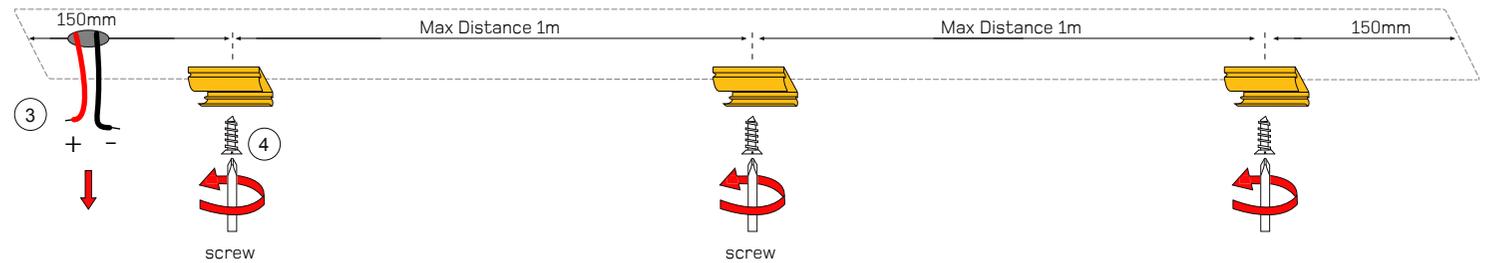
Installation for single module

- 1 - Mark out the length of the luminaire (as per 'sign off sheet').
 - Mark out where each fixing clip are to be located. Ensure the first and final fixing clips are located 150mm from the start and end of the module.
 - Each module requires a minimum of 2 fixing clips per meter.
- 2 - Cut 10 ϕ mm maximum aperture on the centre line, 75mm from the start of the module. Mark out where fixing clips are to be located.



Wall / Ceiling

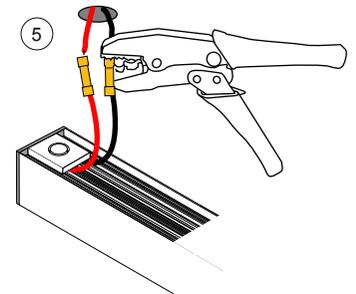
- 3 - Feed sufficient amount of secondary cable from the driver through the aperture (secondary cable between driver and module not supplied).
- 4 - Secure the fixing clips with screws provided or appropriate screws for material used. Continue this process for the entire length of the luminaire.



Wiring installation

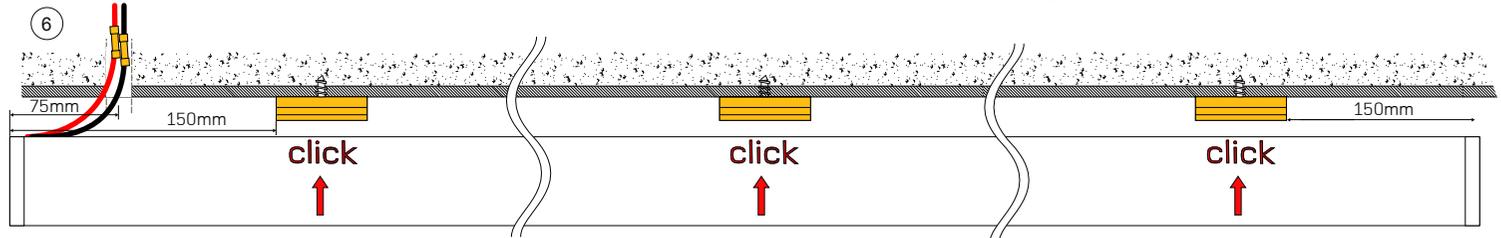
NOTE - 2 people required to complete this installation

- 5 - Before attaching the module to the fixing clips you must wire the module to the secondary cables from the driver.
 - Connect the secondary cables from the driver to the butt splice's on the module.
 - Ensure correct polarity is observed **RED (+)** **BLACK (-)**.
 - Secure the connection using pliers
 - Feed any excess cabling back through the aperture.



Securing modules

- 6 - Once the module has been connected to the secondary wires, attach the module to the fixing clips.

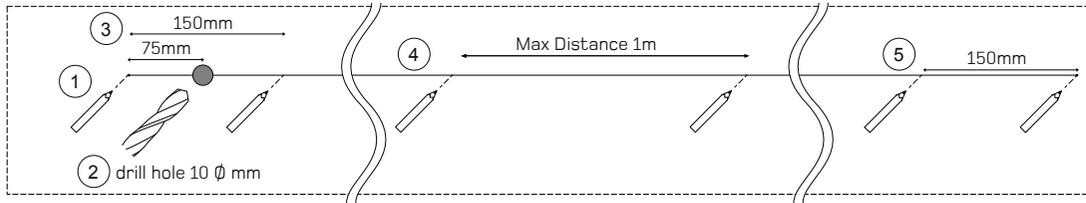


Single module installation complete.

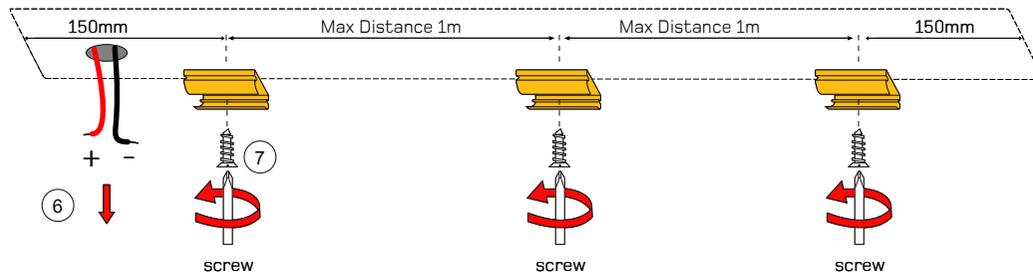
Installation for two connecting modules

- 1 - Mark out centre line of the entire length of the luminaire (as per sign off sheet).
- 2 - Cut 10 \varnothing mm maximum aperture on the centre line, 75mm from the start of the module. Mark out where fixing clips are to be located.
- 3 - Ensure the first fixing clip is located 150mm from the start of the module.
- 4 - Each module requires a minimum of 2 fixing clips per meter.
- 5 - The final fixing clip is to be located 150mm from the end of the last module.

Wall / Ceiling

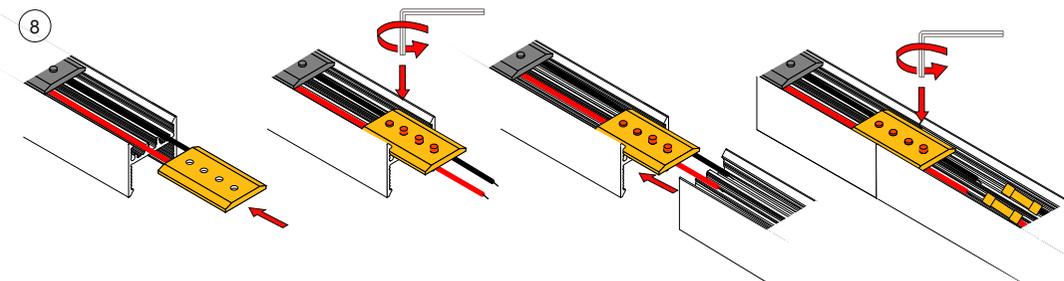


- 6 - Feed sufficient amount of secondary cable from the driver through the aperture (secondary cable between driver and first module not supplied).
- 7 - Secure the fixing clips with screws provided or appropriate screws for material used. Continue this process for the entire length of the luminaire.



bracket installation

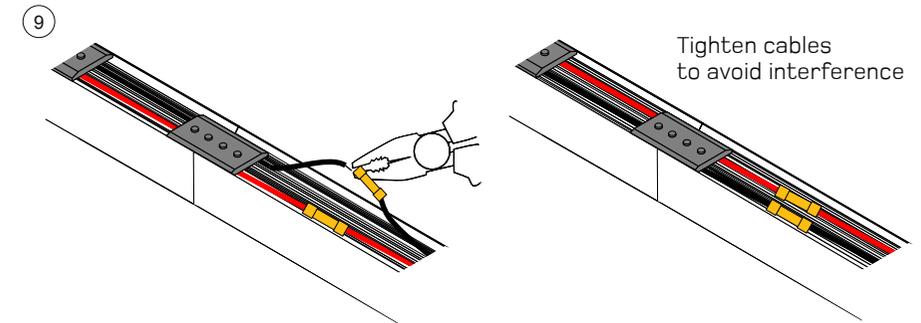
- 8 - Slide the connecting bracket into the module so that half the bracket is still exposed.
 - Fix 2 no. grub screws in place to secure the bracket to the module.
 - Slide the next module on to the connecting bracket until it is flush with the first module.
 - Ensure the cables are running behind the connecting bracket.
 - Secure the second module in place with the remaining grub screws. A tight connection will help prevent light spill.



Wiring modules

- 9 - Wire the two modules together using the butt splice's and pliers.
 - Feed the wires from the first module into the butt splice of the second LED module.
 - Slack wire must be tightened (to avoid cable interference) by securing wire under the pre attached connecting bracket.
 - Ensure correct polarity is observed **RED (+) BLACK (-)**.

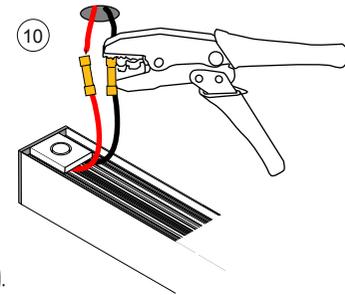
NOTE - Once wired the two modules are referred to as a connected module



Wiring installation

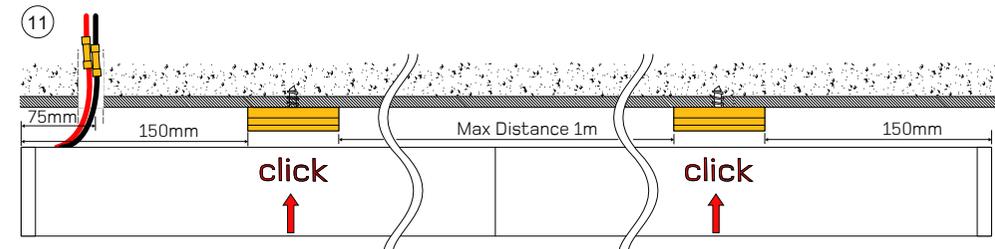
NOTE - 2 people required to complete this installation.

- 10 - Before attaching a connected module to the fixing clips you must wire the connected module to the secondary cables from the driver.
 - Connect the secondary cables from the driver to the butt splices on the module.
 - Secure wires in place using pliers.
 - Ensure correct polarity is observed **RED (+) BLACK (-)**.
 - Feed any excess cabling back through the aperture.



Securing modules

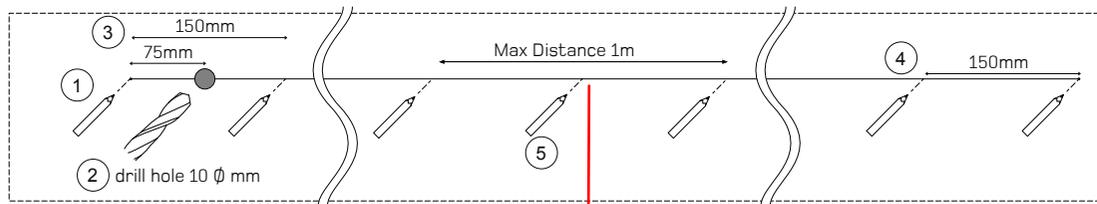
- 11 - Once the connected module has been wired to the secondary cables attach the connected module to the fixing clips.



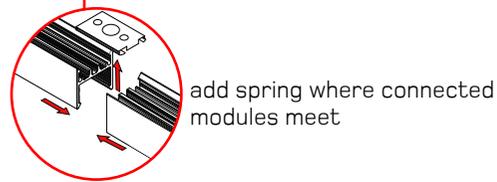
Connected module installation complete.

Installation multiple connected modules (lengths over 4.8m)

- 1 - Mark out centre line of the entire length of the luminaire (as per sign off sheet).
- 2 - Cut 10 \emptyset mm maximum aperture on the centre line, 75mm from the start of the module. Mark out where fixing clips are to be located.
- 3 - Ensure the first fixing clip is located 150mm from the start of the module.
- 4 - The final fixing clip is to be located 150mm from the end of the last module.
- 5 - Mark out where modules meet as fixing clips are to be located here.
 - Each module requires a minimum of 2 fixing clips placed a maximum distance of 1m apart.

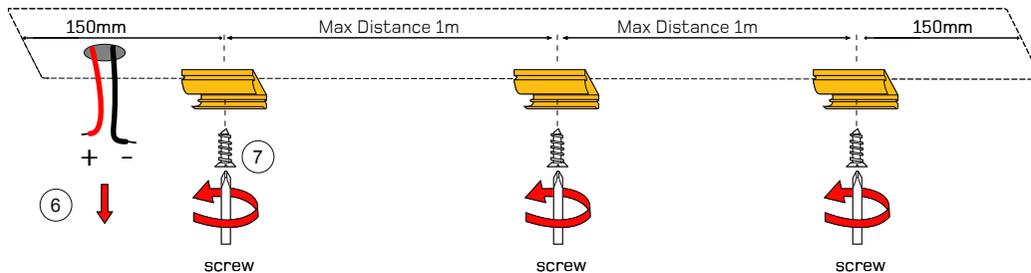


Wall / Ceiling



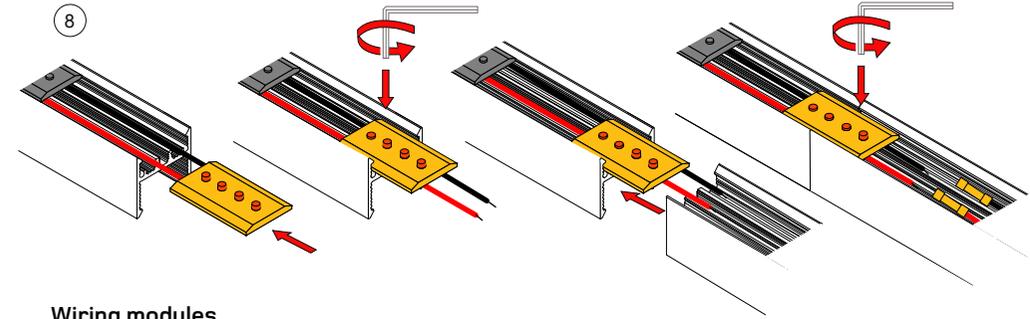
NOTE - Refer to 'sign off sheet' if additional feed is required. A new aperture of 10 \emptyset mm at the correct location is required.

- 6 - Feed sufficient amount of secondary cable from the driver through the aperture (secondary cable between driver and first module not supplied).
- 7 - Secure the fixing clips with screws provided or appropriate screws for material used. Continue this process for the entire length of the luminaire.



Connection modules

- 8 - Slide the connecting bracket into the module so that half the bracket is still exposed.
 - Fix 2 no. grub screws in place to secure the bracket to the module.
 - Slide the next module on to the connecting bracket until it is flush with the first module.
 - Ensure the cables are running behind the connecting bracket.
 - Secure the second module in place with the remaining grub screws. A tight connection will help prevent light spill.

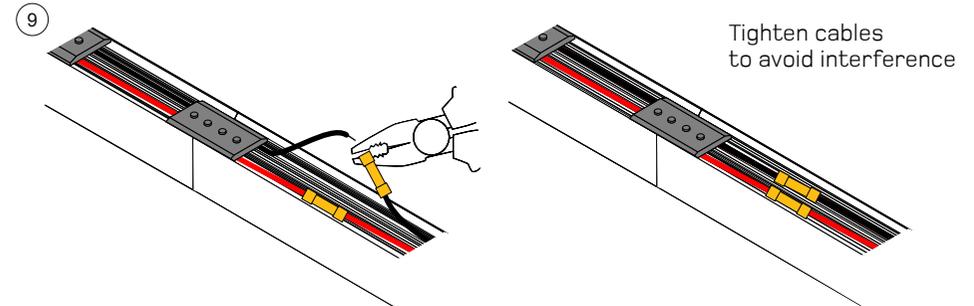


Wiring modules

- 9 - Wire the two modules together using the butt splice's and pliers.
 - Feed the wires from the first module into the butt splice of the second LED module.
 - Slack wire must be tightened (to avoid cable interference) by securing wire under the pre attached connecting bracket.

Ensure correct polarity is observed **RED (+)** **BLACK (-)**.

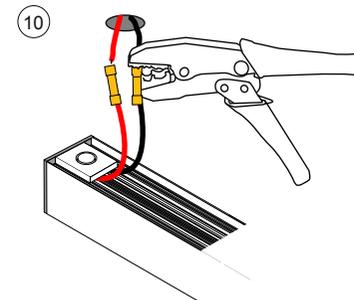
NOTE - Once wired the two modules are referred to as a connected module



Wiring installation

NOTE - 2 people required to complete this installation.

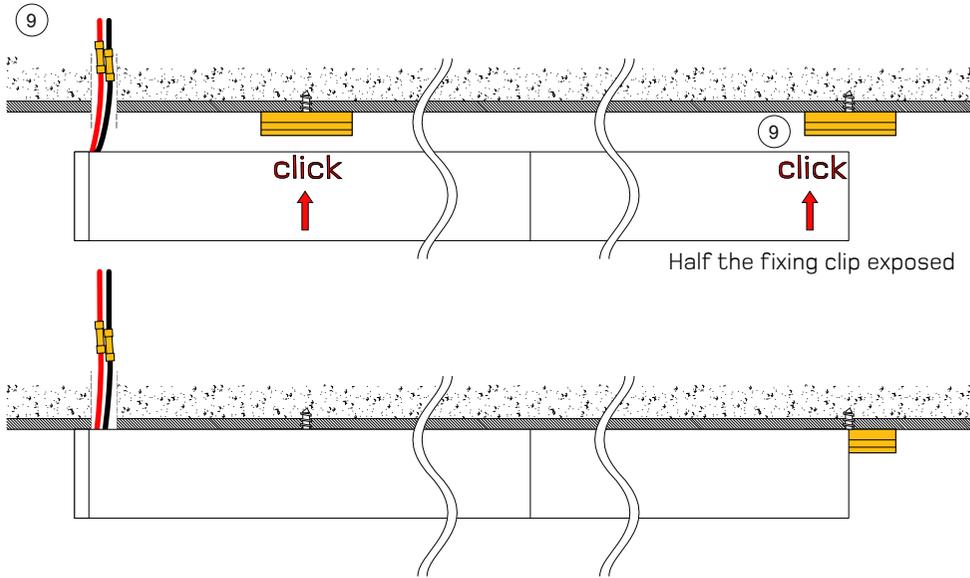
- 10 - Before attaching a connected module to the fixing clips you must wire the connected module to the secondary cables from the driver.
 - Connect the secondary cables from the driver to the butt splices on the module.
 - Secure wires in place using pliers. Ensure correct polarity is observed **RED (+)** **BLACK (-)**.
 - Feed any excess cabling back through the aperture.



MULTIPLE INSTALLATION CONTINUES ON REVERSE

Fixing connected modules

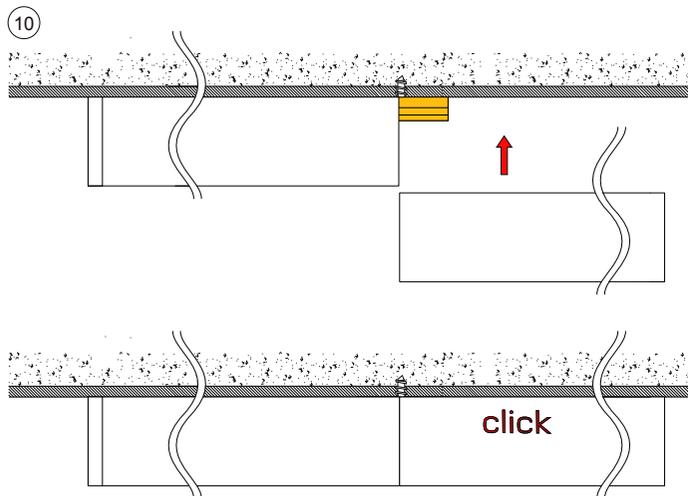
9 - Ensure the connected module(s) have been securely wired then attach it to fixing clips.



IMPORTANT - Follow configuration as per 'sign off sheet'.

Attaching and connected modules

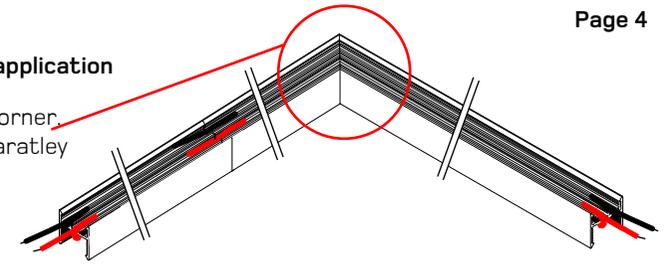
10 - Align the next connected module to the fixed connected module so that the two ends are flush then attach the connected module to the fixing clips.



Multiple module installation is complete.

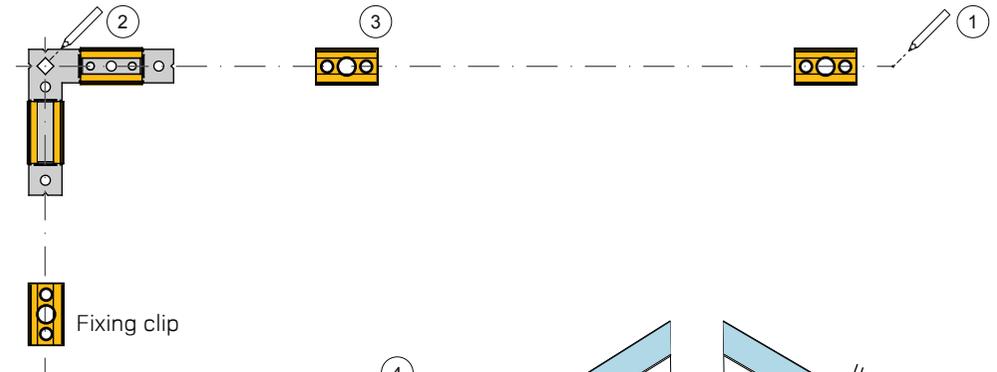
Installation for corner bracket application

NOTE - No power-through the corner. Each mitred end will be feed separatley



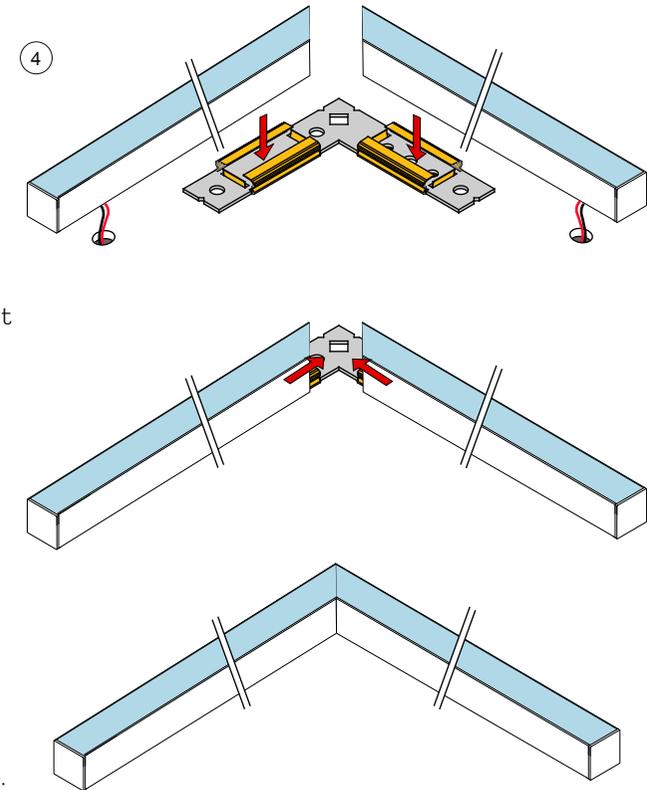
Corner bracket installation

- 1 - Mark out centre line of the corner bracket (as per sign off sheet).
- 2 - Ensure the corner-bracket is aligned accurately above corner centreline.
- 3 - Ensure all the fixing clip are aligned accurately above corner centreline.



Connecting modules

- Before attaching the module to the fixing clips you must wire the module to the secondary cables.
- Connect the module on the fixing clips ensuring the mitred ends meet perfectly in the centreline.
- Please be aware that in order to avoid any light spill the fixing clips must aligned on the centreline.



Corner installation is now complete.

Installation The installation of these products should only be carried out by a suitably qualified electrician in accordance with the instructions supplied with the product. All installation instructions can be downloaded from our website. We recommend that they are included with construction issue drawings and specifications.

Ceiling void depths for recessed downlights and linear luminaires: The Ceiling void depth should ideally be 25mm deeper than the overall height of the luminaire. When a fire-hood and/or a remote emergency pack is to be used, the void depth and space surrounding the luminaire will need to be increased.

Dimensions and specification The drawings, dimensions and finishes of the products in this catalogue and any accompanying information are purely indicative. Great care is taken to provide up to date information in this publication, however, due to a continuing programme of design and development, we reserve the right to change these dimensions without prior notice. Please check the website for most up to date information. If a dimension is critical to the success of your project, please confirm it directly with the technical department. Throughout this publication, cut-out sizes refer to the aperture required when fittings are mounted in soft plasterboard. For fibrous tiles, timber, metal tiles and cast-in construction, check dimensions on site, or ask for a sample. Whitegoods reserves the right to discontinue any product in this publication at any time without prior notice.

Performance All photometric data supplied is taken from a standard production luminaire tested under ideal laboratory conditions and may vary from data taken in alternative conditions. All calculated light levels and/or lighting plots provided are offered for guidance only. The customer must satisfy themselves that luminaires proposed are suitable for the application intended in all performance and physical criteria.

Temperature and physical environment All products are tested with stated lamp wattage. Incorrect lamp types and wattages may effect efficiency, create glare and seriously overheat the luminaire. Adequate ventilation and free air space around fittings (in accordance with the installation instructions supplied with the product) will be necessary when used in confined spaces where elevated temperatures will occur. All luminaires are designed to operate in a maximum 30degree ambient temperature. Operating in ambient temperatures above this can affect performance and the mechanical functionality of the luminaire.

Intellectual property In order that we can continue to develop innovative quality products, we believe it is of critical importance that we protect our ideas and visions. Therefore any infringement of our intellectual property will be vigorously pursued.

Returns We cannot offer refunds on Custom or Tailored products, Standard product may be eligible for re-stocking within 3 months of original purchase date, subject to a 30% handling charge. All original packaging and documentation must be present and goods must be in original condition.

Service Whitegoods will endeavor to fulfill all orders as quickly as possible and treat all customers with the highest regard. For further information about Whitegoods products and services, please visit www.whitegoods.com.

WEEE directive



The Waste Electrical and Electronic Equipment Directive (WEEE Directive) is the European Community directive 2002/96/EC on waste electrical and electronic equipment, together with the RoHS Directive 2002/95/EC which became European Law in February 2003, setting collection, recycling and recovery targets for all types of electrical goods. This imposes responsibility for the disposal of waste electrical and electronic equipment (WEEE) on the manufacturers of such equipment. To meet these targets Whitegoods has become a member of Lumicom to allow us to meet the current and future directives. For further information on the WEEE directive please contact our offices. WEEE Registration number is WEE/FG0362QY