



IN ROOF

The metal trapezoidal backing sheet ensures that the system is not only fire resistant but also doesn't melt in high temperatures unlike plastic counterparts available on the market.

1.7kN minimum uplift resistance per screw, as we use 0.7mm thick trapezoidal sheet. This means each rail has a minimum pull out value of 6.8kN.

12 screws per sheet are securely fastened to the substructure. Each screw achieves 5.5kN from 30mm timber, so a single sheet can achieve a minimum of 66kN (27.5kN/m²) pull out.

EPDM is used to separate materials and to further weatherproof the fixing holes. This is pre-assembled onto the rail ready for immediate installation.

Flashing all around the array ensures the system is fully weatherproof.



10.38kg/m²

Weight

All

Suitable roofing tiles

1°-45°

Suitable roof pitch

APPROVED PRODUCT



Portrait & landscape

Module orientation

Aluminium, stainless & galvanised steel

Material

+44 (0) 1451 824 312

info@sunfixings.co.uk

R3 Bourton Industrial Park, Bourton on the Water, Cheltenham, Glos, GL54 2HQ, UK

WWW.SUNFIXINGS.CO.UK

V032021



SUNFIXINGS

CONNECTING TO THE FUTURE



IN ROOF



R3 Bourton Industrial Park, Bourton on the Water, Glos, GL54 2HQ, UK

Tel: +44 1451 824 312

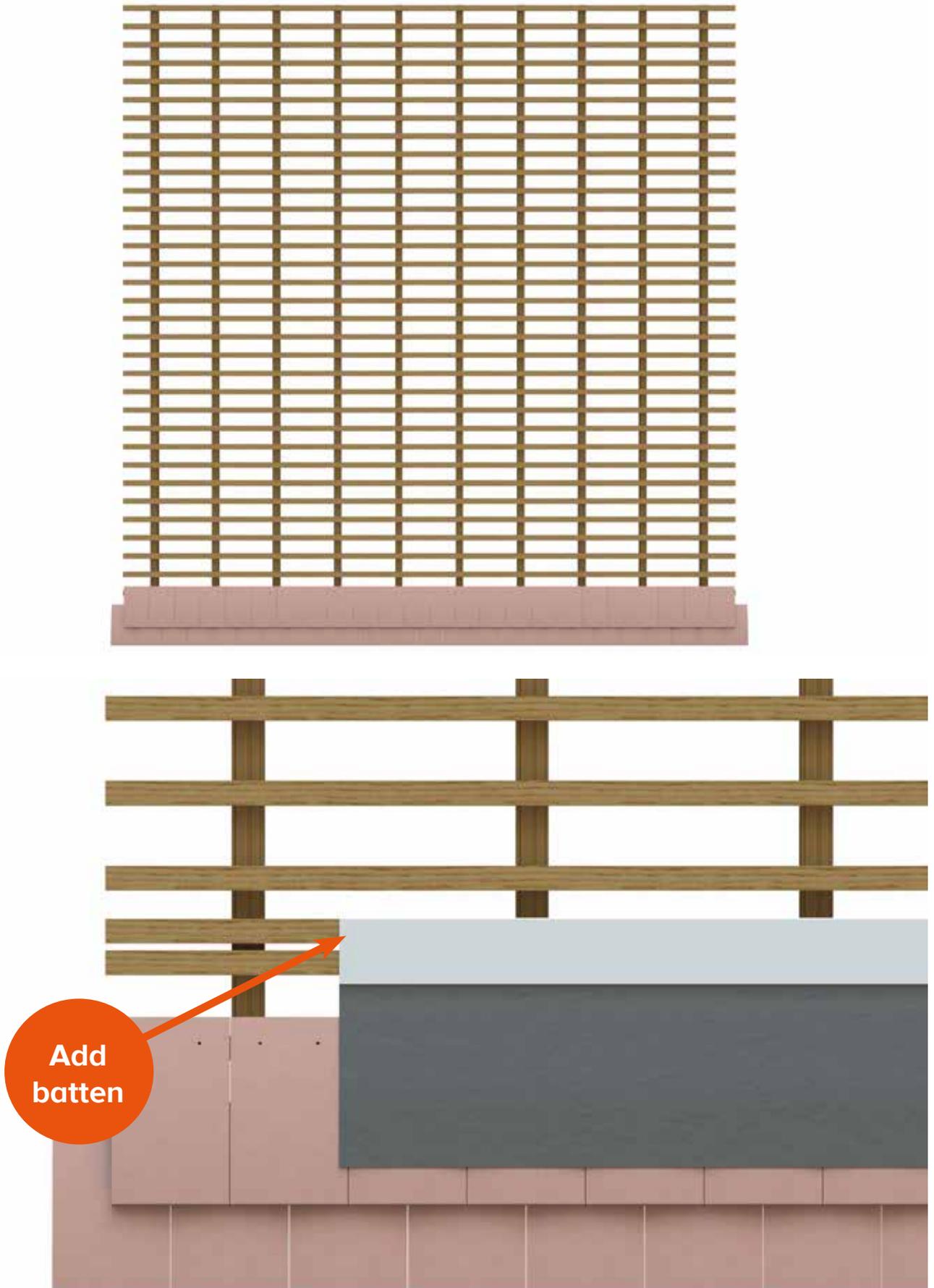
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V072017

2

Measure the array & remove necessary roofing tiles



3

Fit the flashing to the bottom of the array

Tools & Items Required

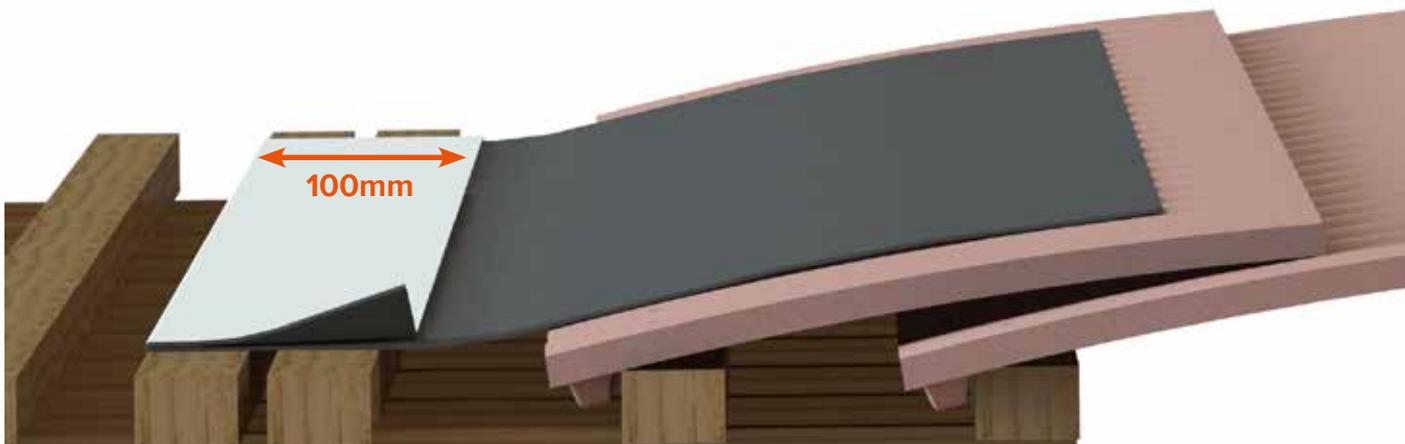
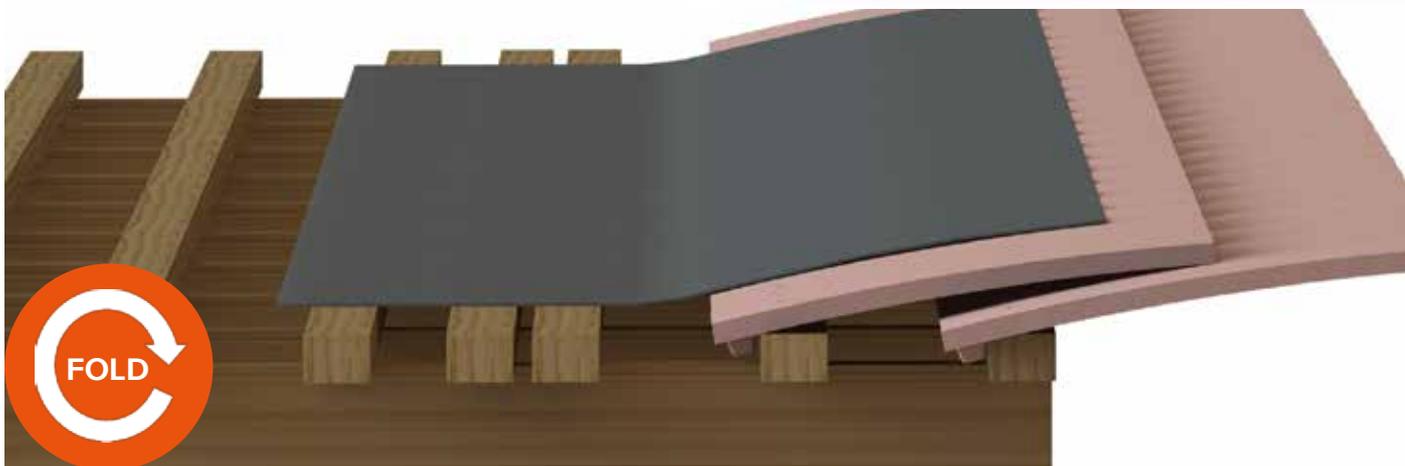
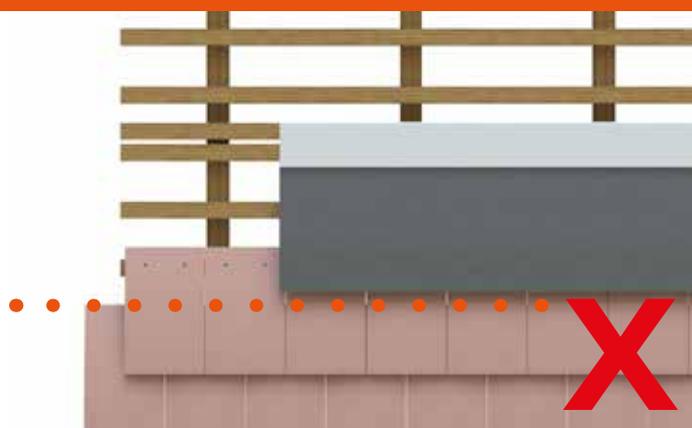
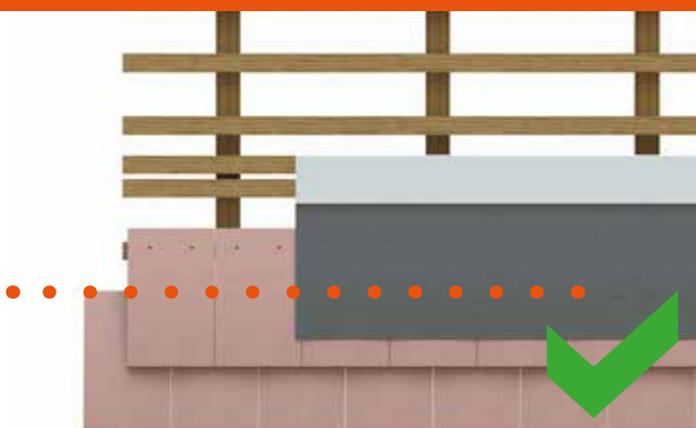


Layout



Flex 450mm
(bottom)

Flex to sit lower than roofing tile.
Peel off the backing of the Flex and stick over battens & roofing tile.



4

Position the Trapezoidal Sheets

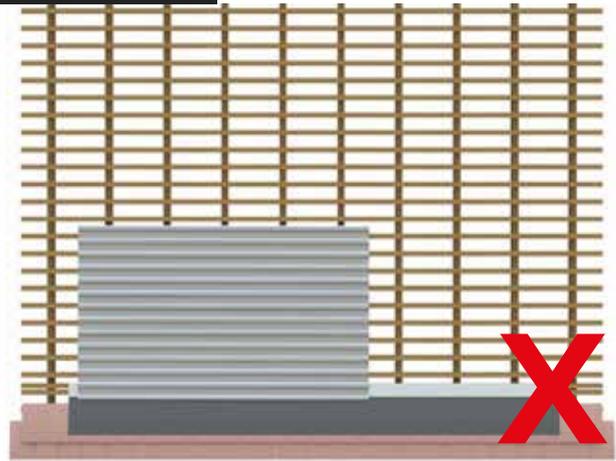
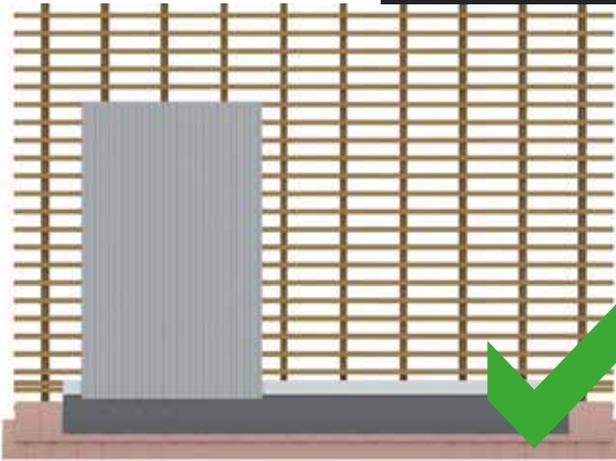
Tools & Items Required



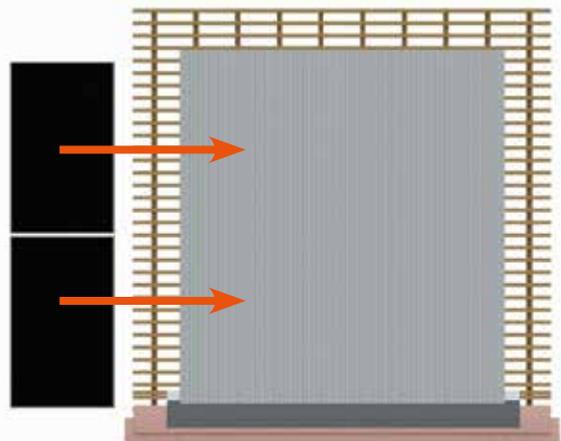
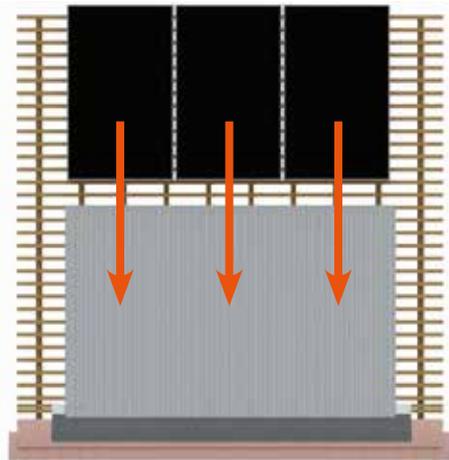
Layout



Trapezoidal Sheet



Use layout for overlap dimension



Tools & Items Required



Battery Drill
(NOT Impactor)



8mm Hex
Socket Driver

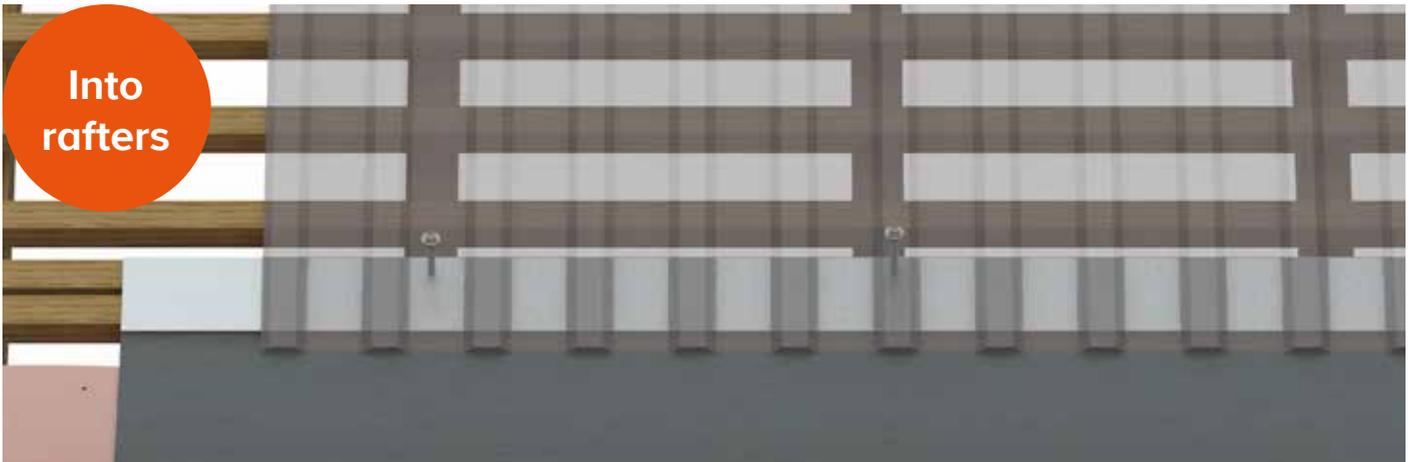


Trapezoidal
Sheet

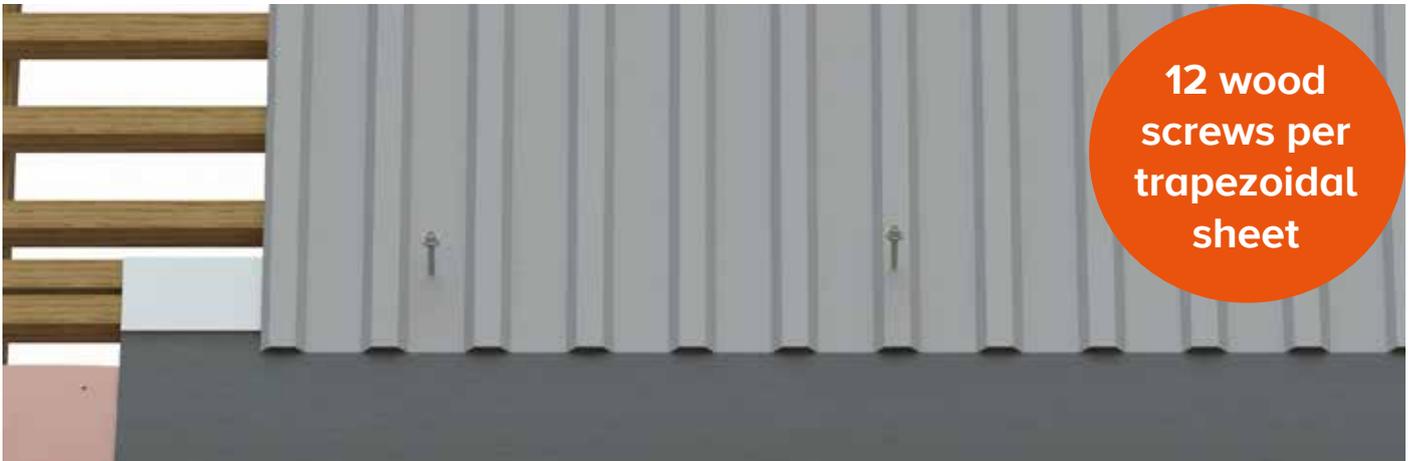


Wood Screw

Into
rafters



12 wood
screws per
trapezoidal
sheet



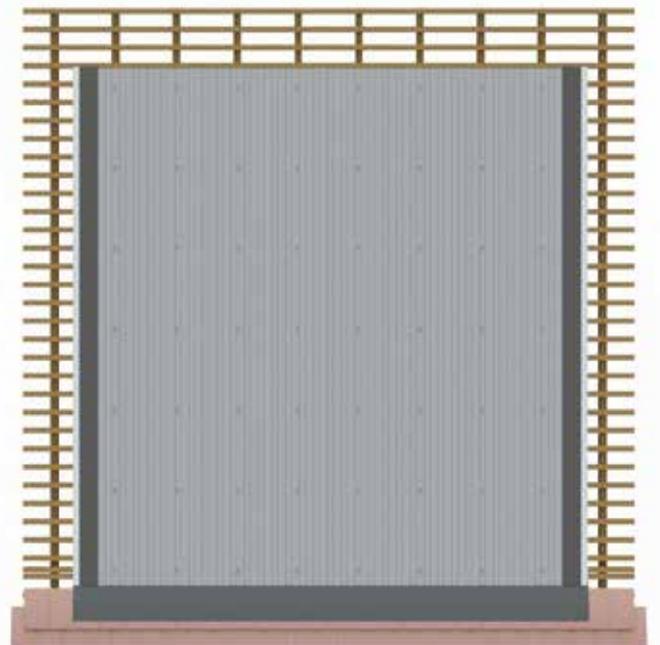
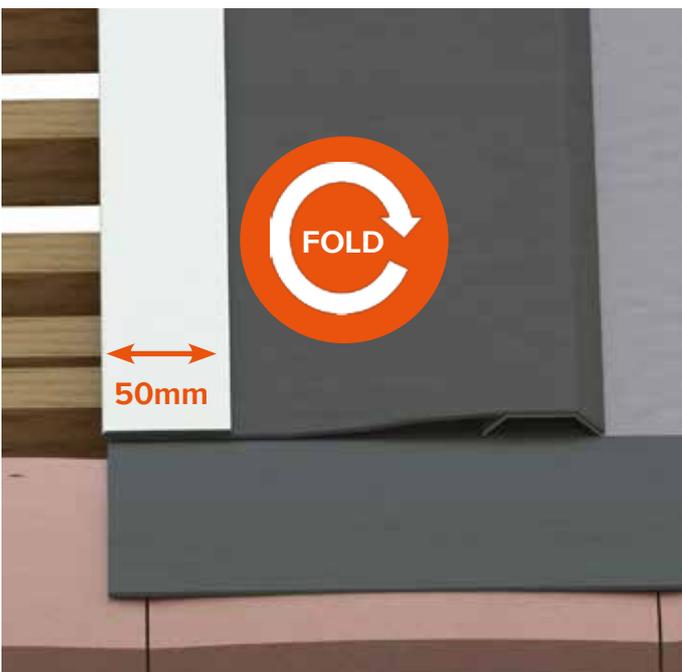
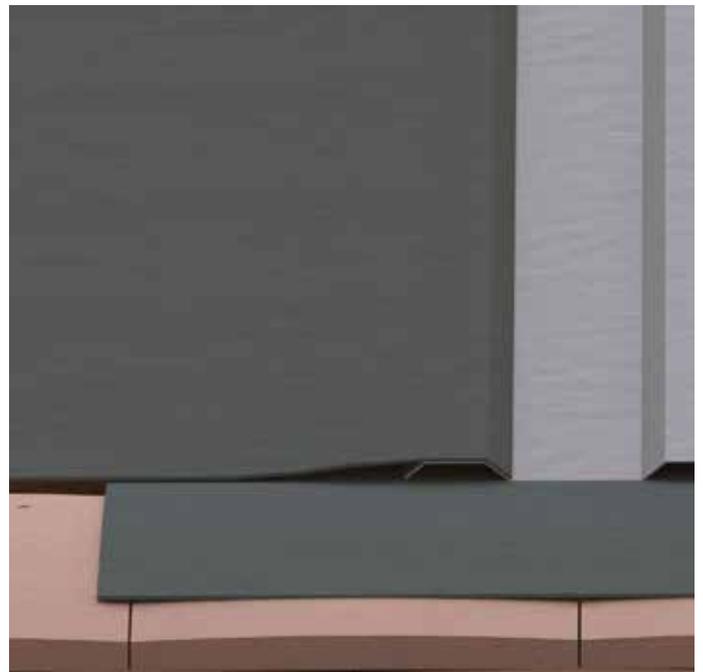
6

Fit the flashing to the sides of the array

Tools & Items Required



Peel off the backing of the Flex and stick over the 1st trapezoidal crown.



7

Fit the Expansion Tape to the top of the array

Tools & Items Required



Expansion
Tape

Stick to the top of the array across the trapezoidal sheets.



Fit the Mounting Rails to the Trapezoidal Sheets.

Tools & Items Required



Battery Drill
(NOT Impactor)



8mm Hex
Socket Driver



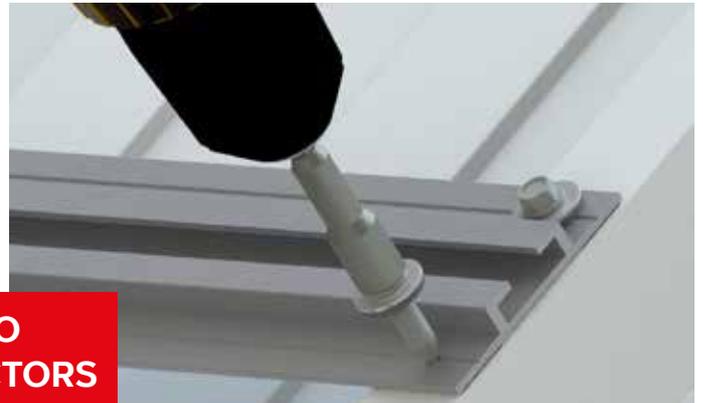
Self Drilling
Screw



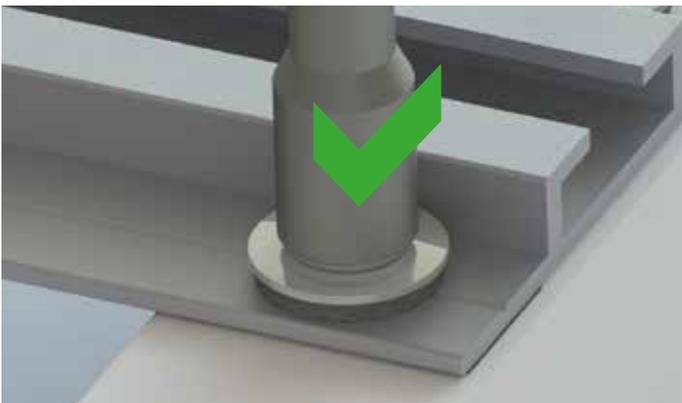
Mounting Rail

4x Self Drilling Screws for each Mounting Rail.

DO NOT overtighten or squash the washer.



**NO
IMPACTORS**

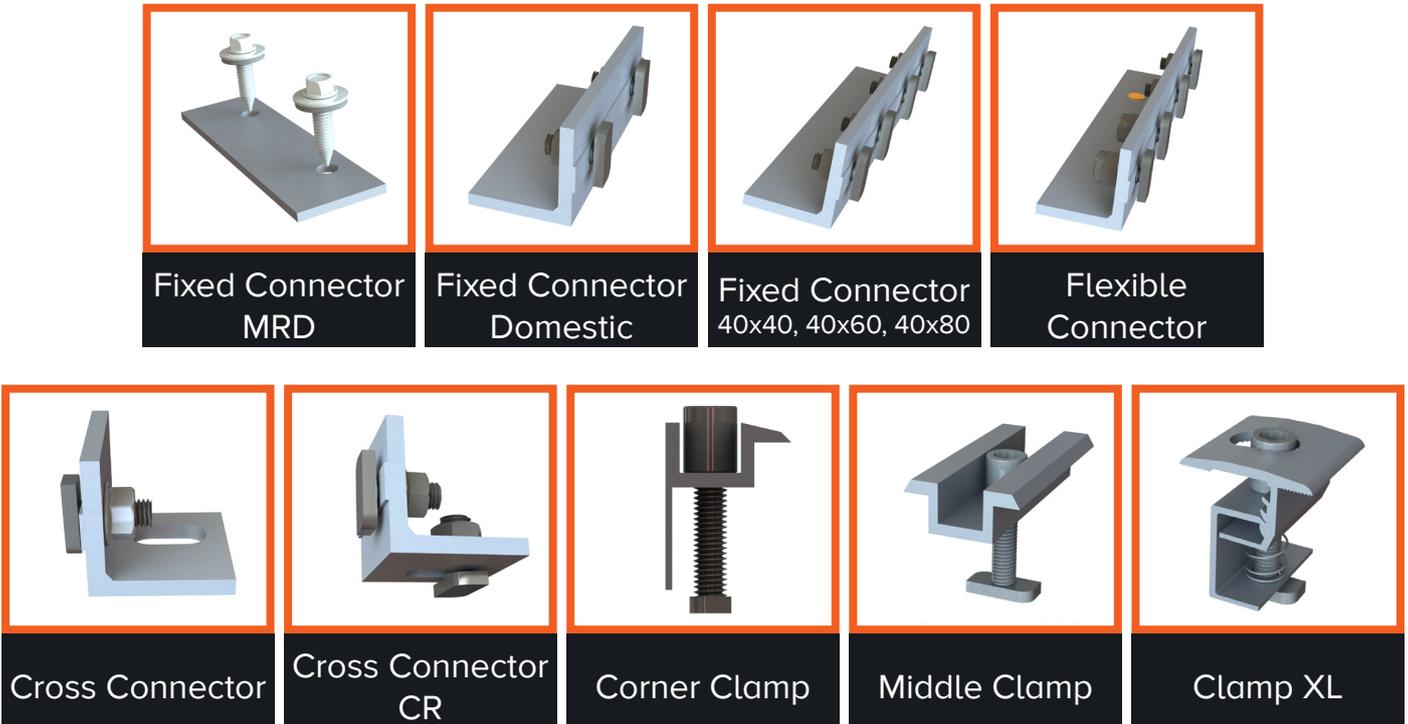


STANDARD TECHNICAL INSTRUCTIONS

Mounting Rail Profiles



Common Components



R3 Bourton Industrial Park, Bourton on the Water, Glos, GL54 2HQ, UK

Tel: +44 1451 824 312

Email: info@sunfixings.co.uk

WWW.SUNFIXINGS.CO.UK

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2

Using the channels in the Mounting Rails



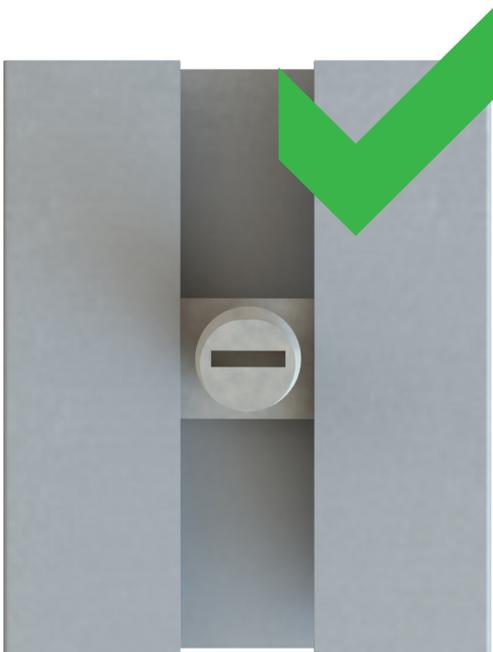
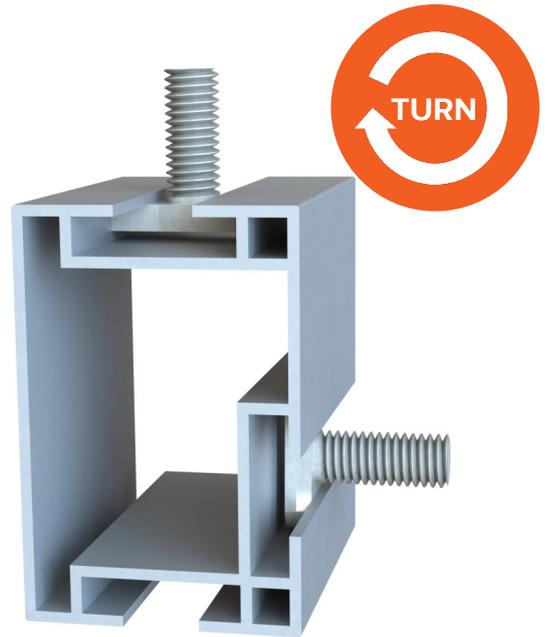
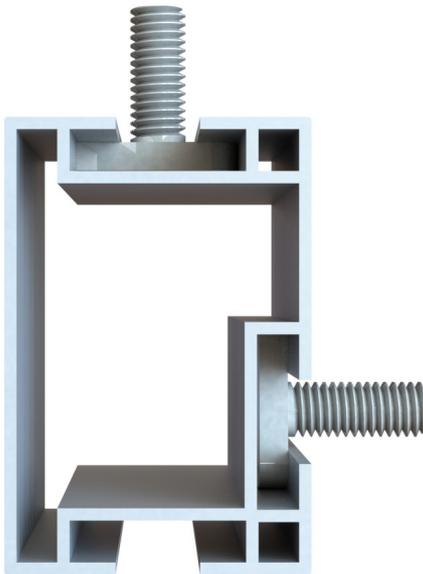
Mounting Rail



T Bolt

Insert the T Bolt into the relevant channel of the Mounting Rail.

Lock it into place by turning the T Bolt clockwise until the line in the bottom of the thread crosses the direction of the Mounting Rail.



3

Installing Fixed Connectors

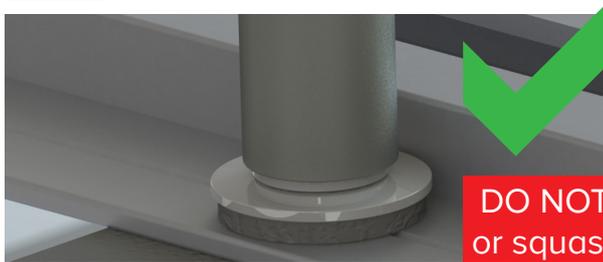
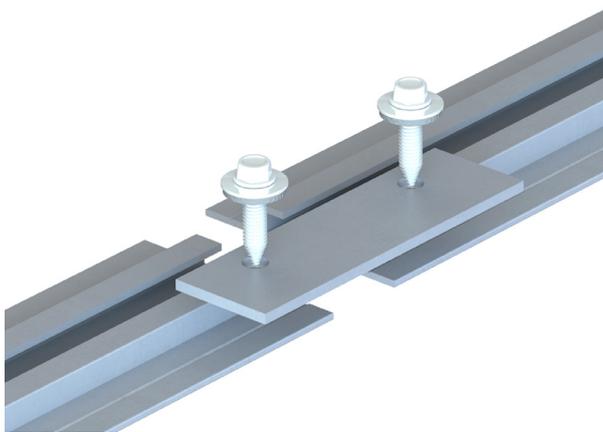
Mounting Rail Direct



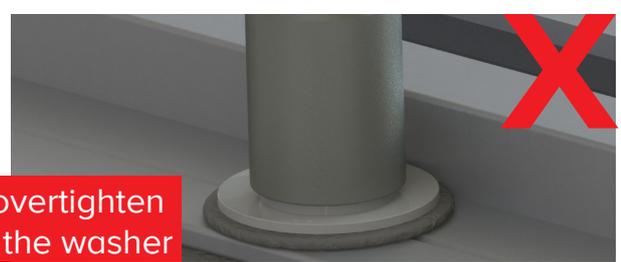
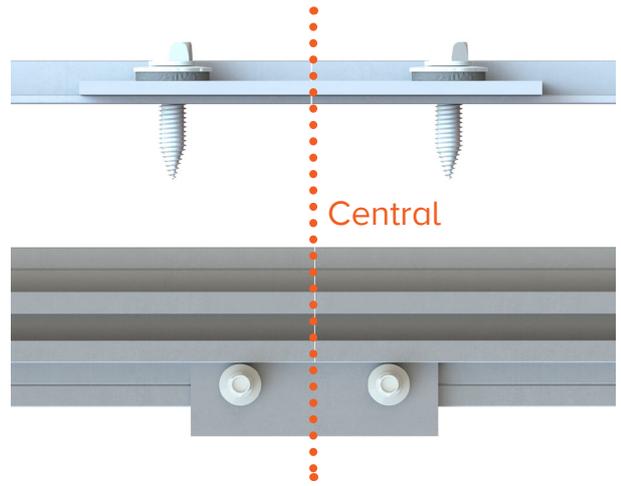
8mm Hex
Socket Driver



Battery Drill
(NOT Impactor)



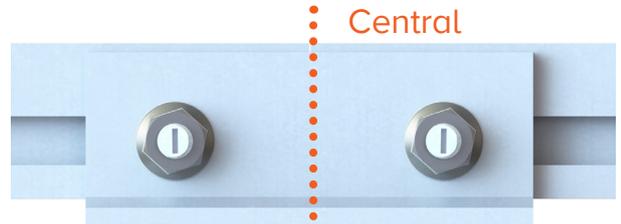
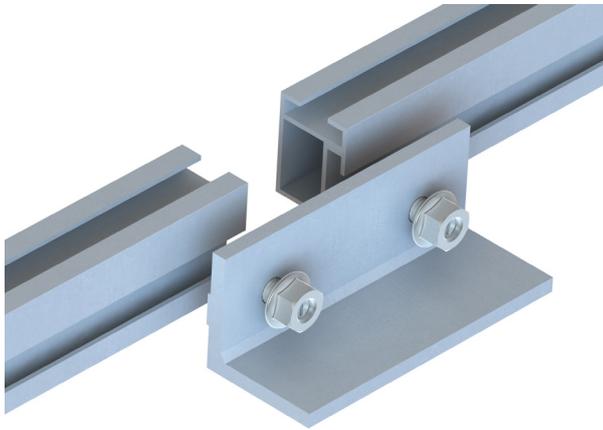
DO NOT overtighten
or squash the washer



Domestic Rail



13mm Spanner



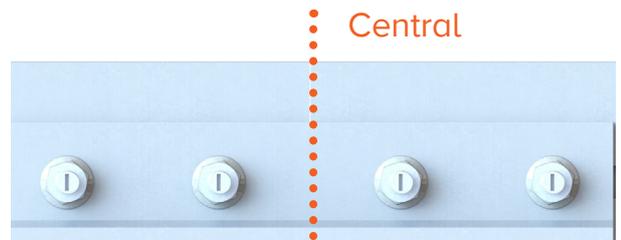
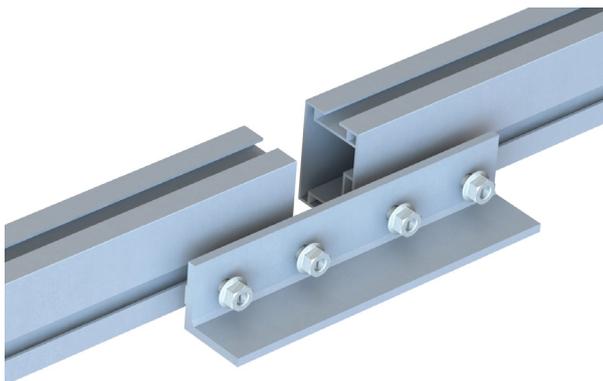
25Nm



40x40, 40x60 & 40x80



13mm Spanner



25Nm

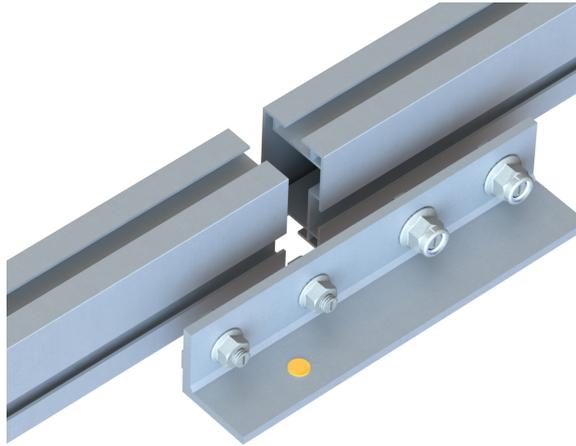


4

Installing the Flexible Connector



13mm Spanner

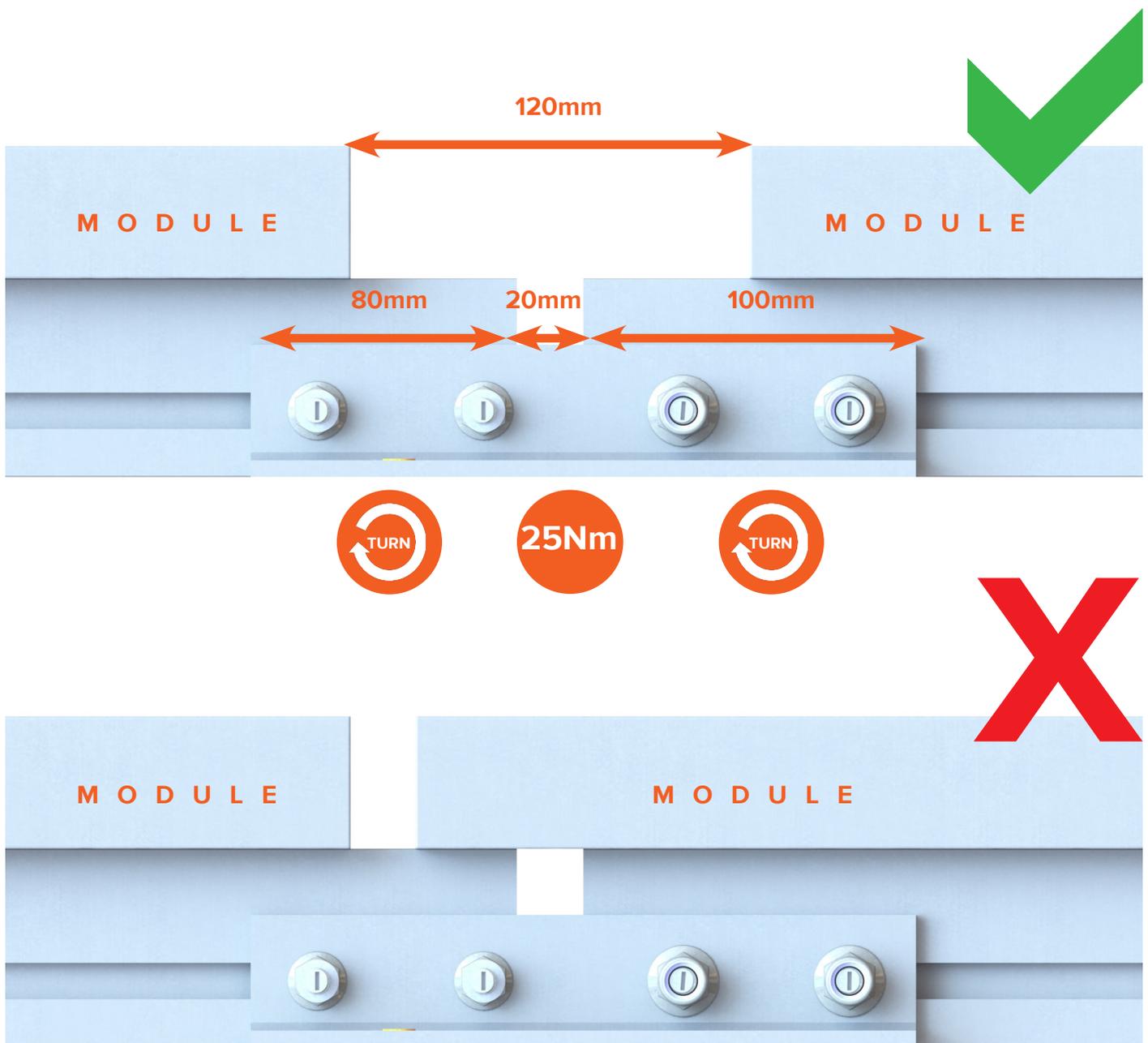


The Flexible Connector is identified by the orange circle.

Leave a 20mm gap between the Mounting Rails.

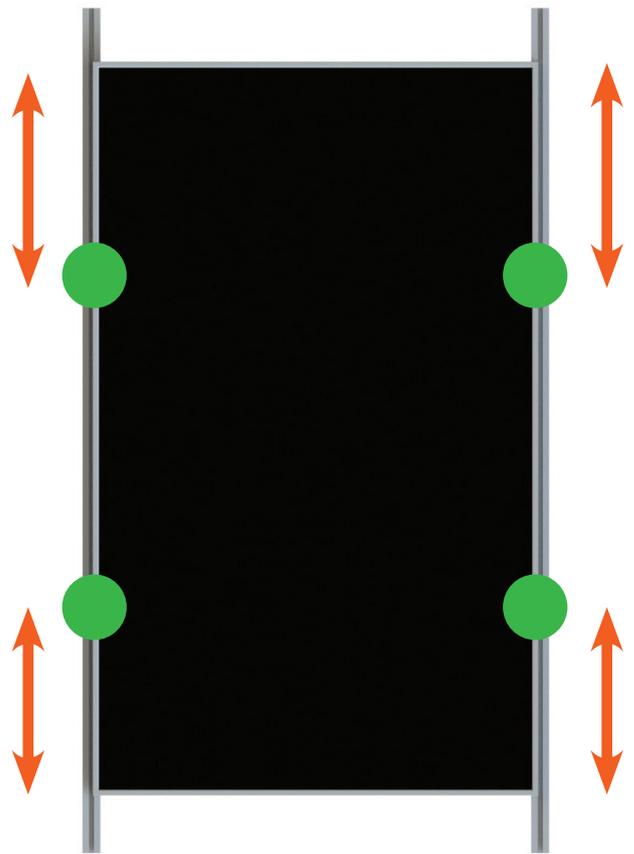
Position the Flexible Connector centrally over the 20mm gap.

Flexible Connectors are ONLY used for 40x40, 40x60 & 40x80.

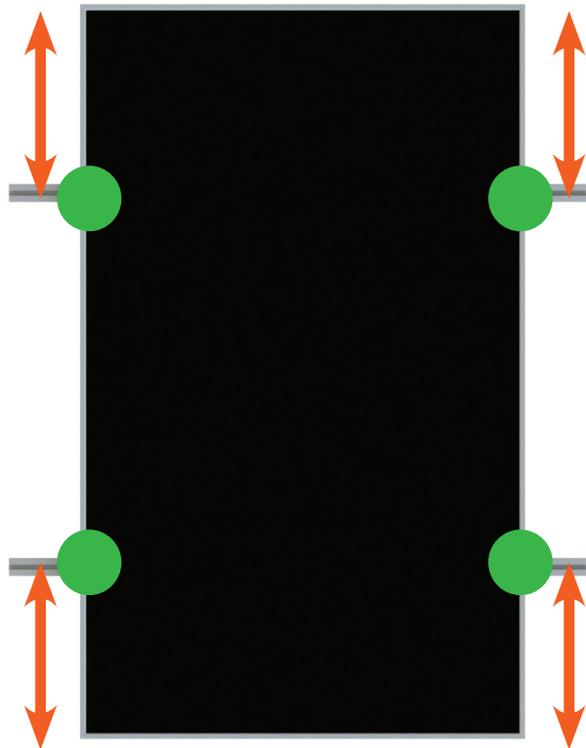


5

Module Clamp Positions



1 module =
4 clamped
positions



Check
with module
manufacturer for
clamping zones

6

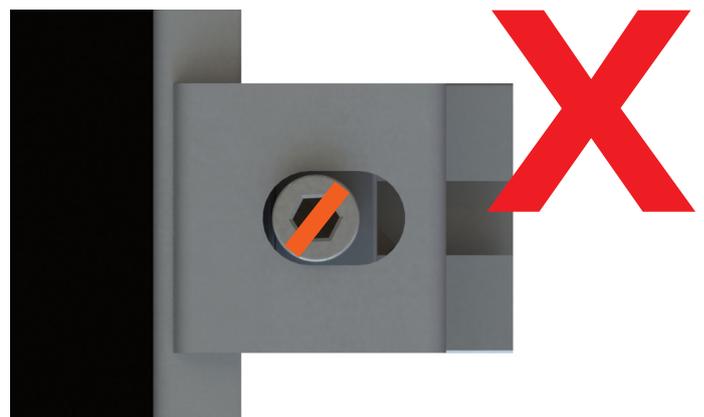
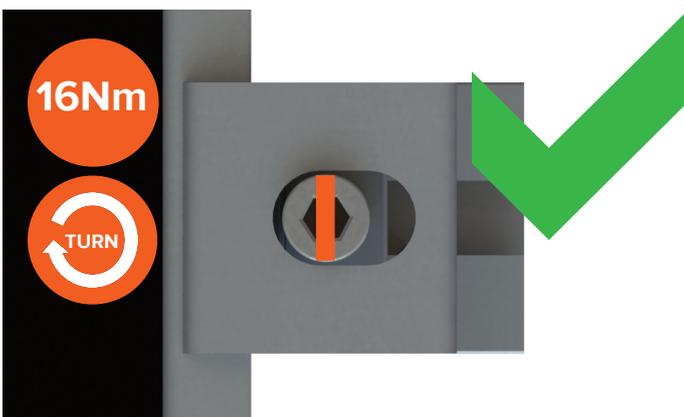
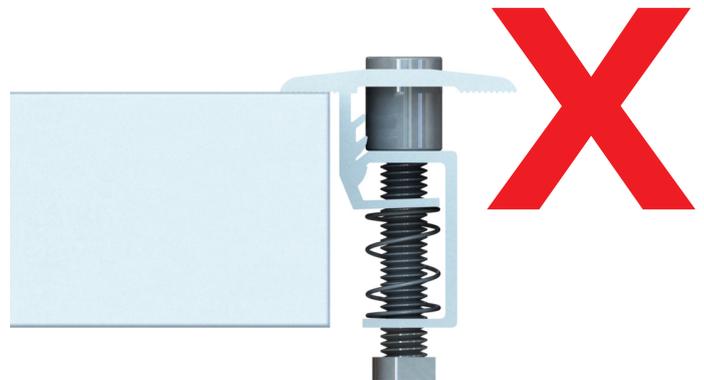
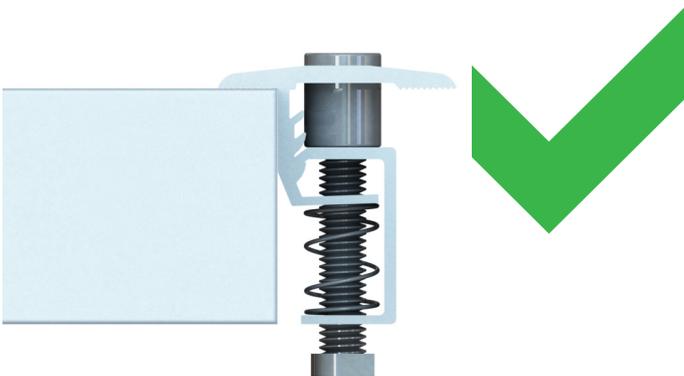
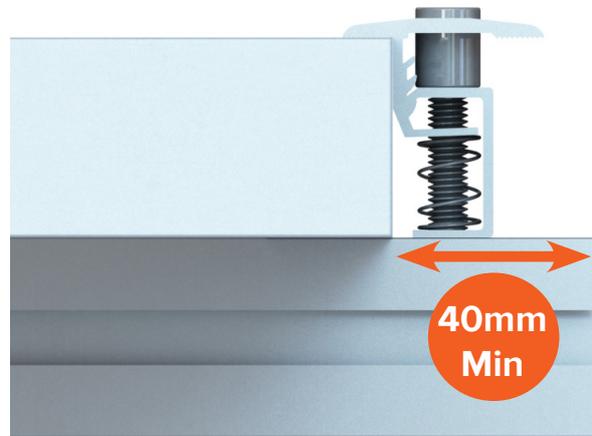
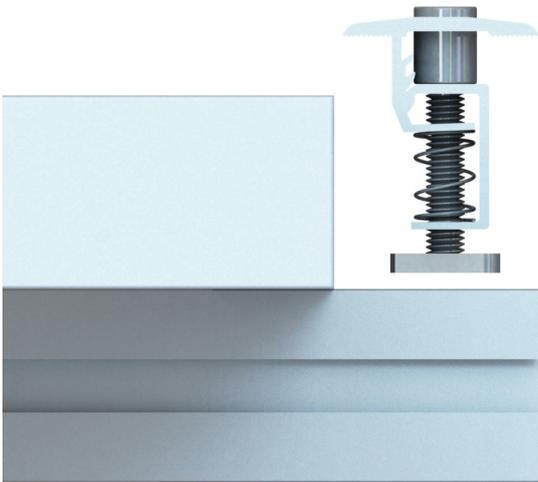
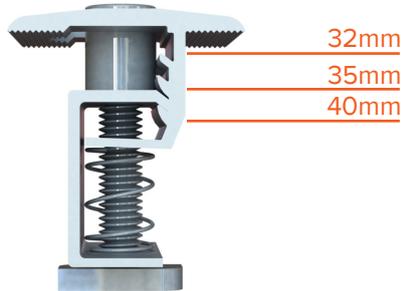
Installing Corner Clamps

Corner Clamp



6mm Allen Key

Adjust the height of the Corner Clamp to match the depth of the module by clicking it up or down.



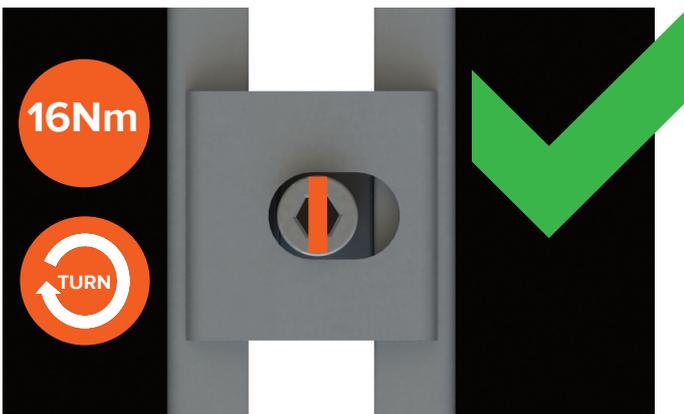
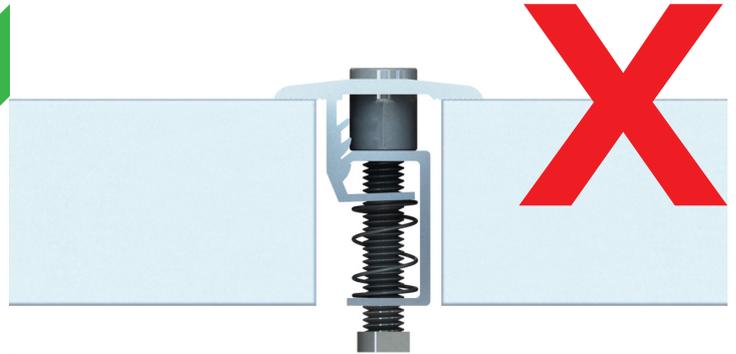
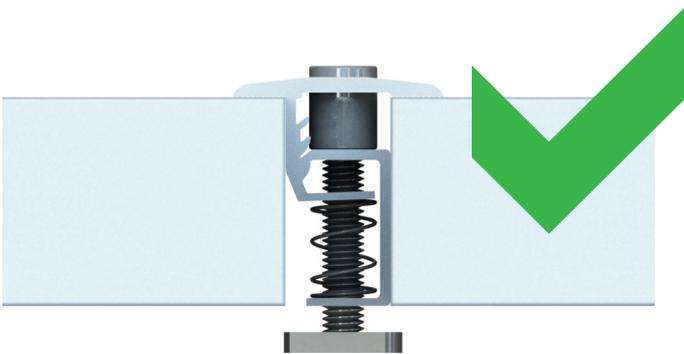
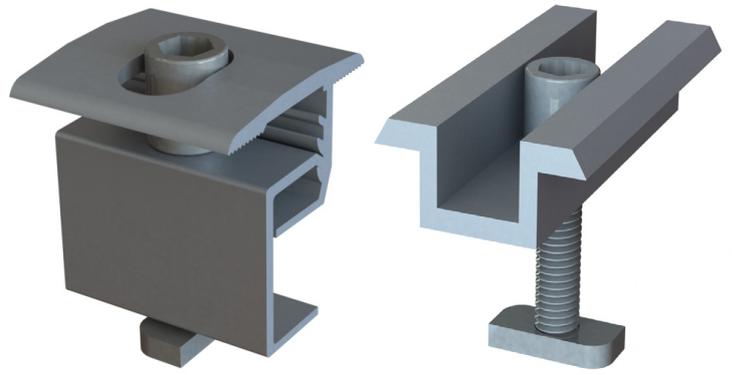
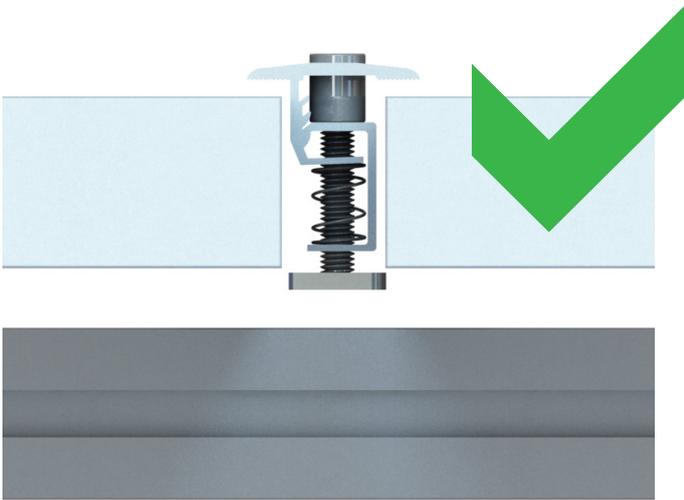
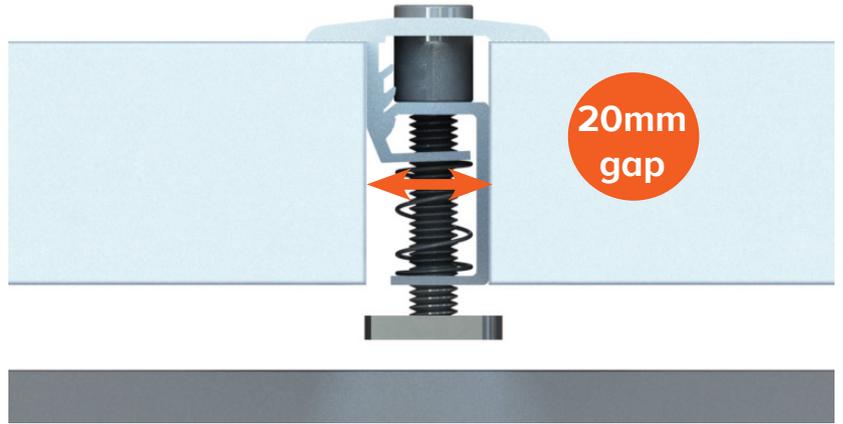
7

Installing Middle Clamps

Middle Clamp



6mm Allen Key



8

Do not use Impactors.

DO NOT use Impactors for installation with Sunfixings mounting systems, especially the module clamps otherwise this will lead to cold welding, shown in the image below.



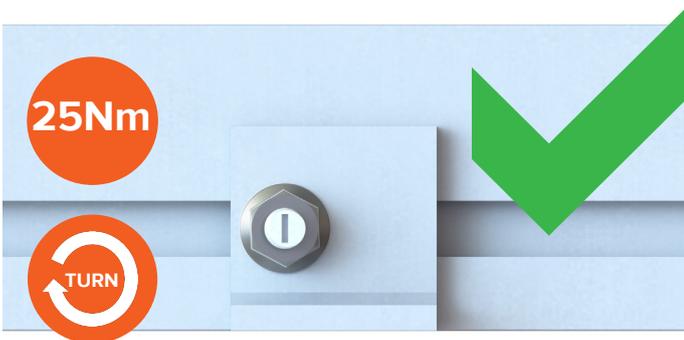
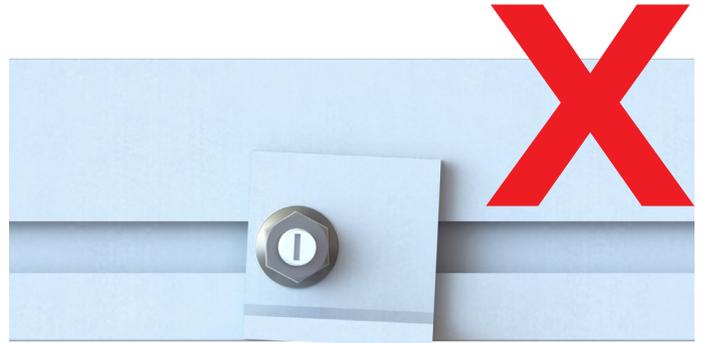
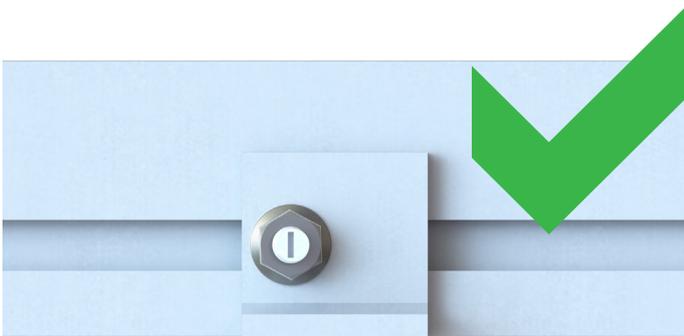
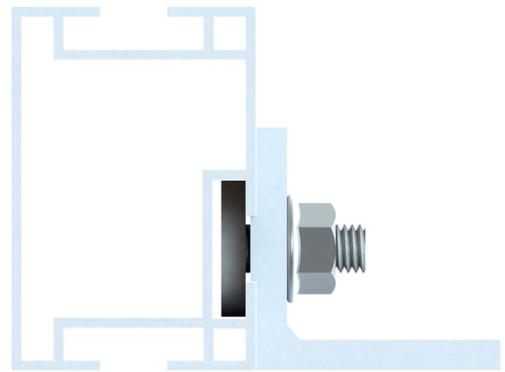
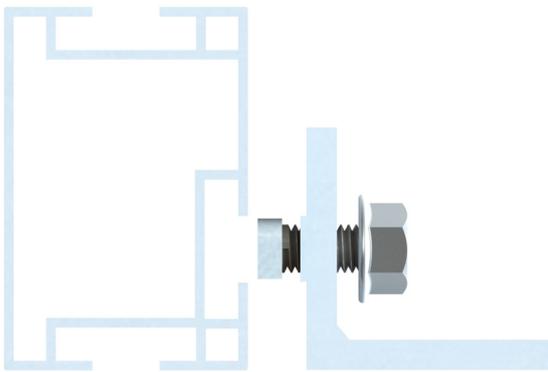
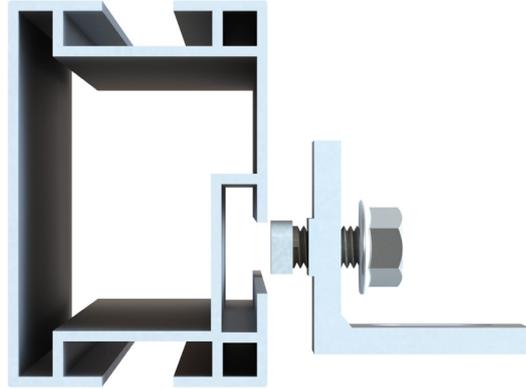
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Installing the Cross Connector

Cross Connector



13mm Spanner



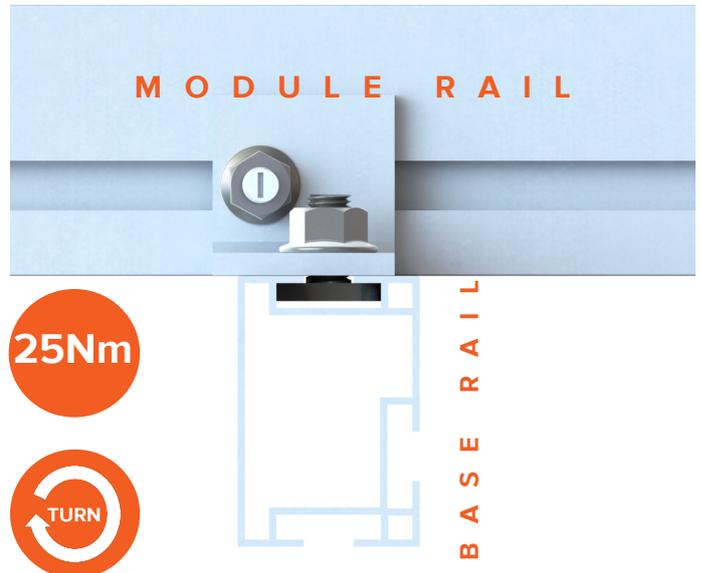
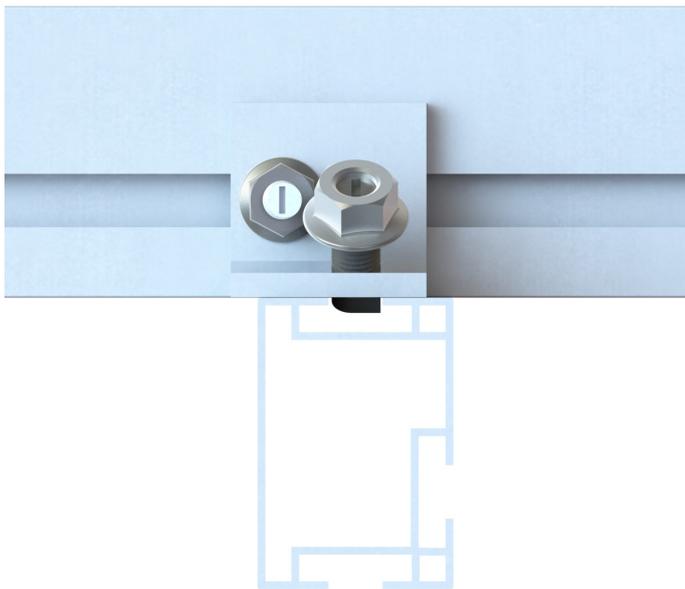
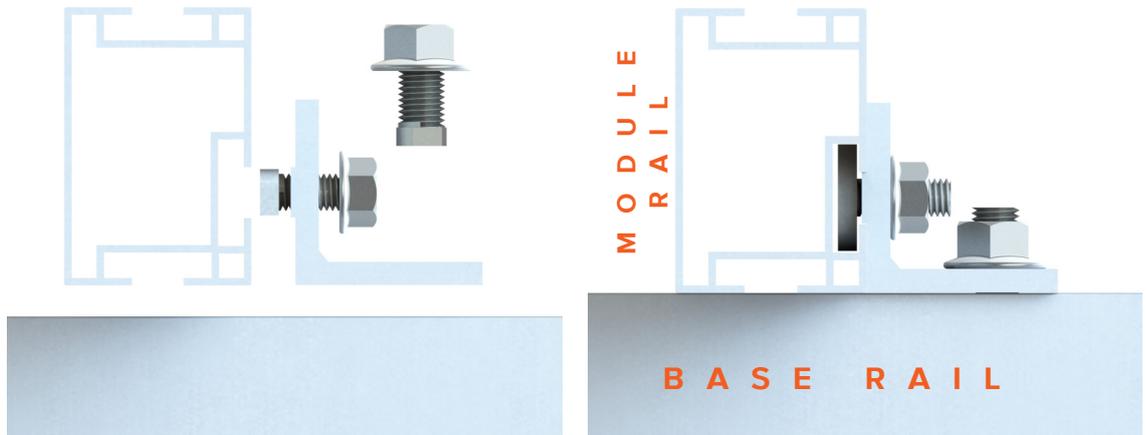
10

Installing Base & Module Mounting Rail (Cross Connection)

Cross Connection



13mm Spanner



25Nm

