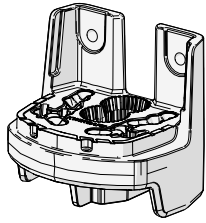


Common Products

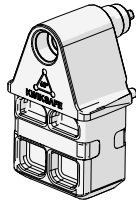
Products needed to assemble Kwiktech designs.



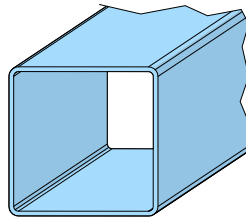
Kwiktech
Universal
Connector



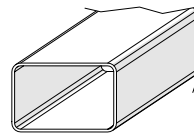
Kwiktech
Rail Insert
Standard



Kwiktech
Rail Insert
60°



50 SHS
(1.5-2.5mm)



25x38 RHS
(1.2-1.6mm)



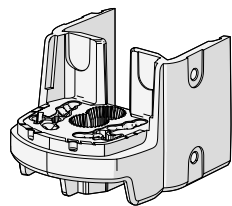
Socket-head
Cap Screw
(M6x40mm)



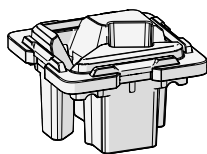
Metal Screw A
Wafer Head
10g x 16mm
(Self Drilling)

Additional Products

Additional products needed to assemble some Kwiktech designs.



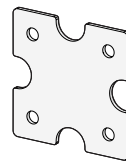
Kwiktech
Post
Connector



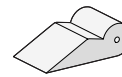
Kwiktech
Star Picket
Stopper



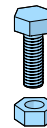
Kwiktech
Stopper Cap



Kwiktech
Displacement
Plate



Spacing
Wedge



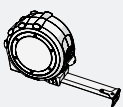
M6x20mm Bolt
M6 Nut



Metal Screw B
Flat Top
10g x 16mm
(Self Drilling)

Tools Required

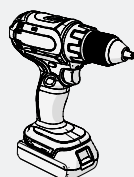
To assemble Kwiktech designs.



Tape
Measure



Marker



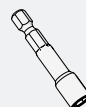
Power Drill or
Impact Driver



No 2.
Phillips
Head Bit



Hex 5 Bit
and/or
Allen Key



5/16"
Hex
Socket



Safety
Glasses



Metal Cutting
Tool for DIY
Cutting

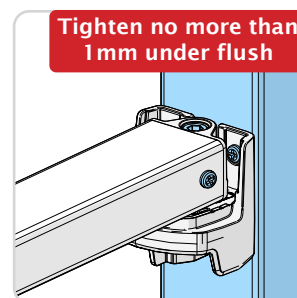
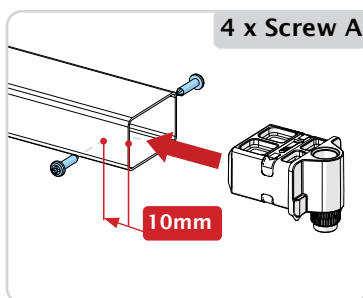


Shifting
Spanner

Additional safety, clamping and access equipment maybe required at the users discretion.
4mm and 13mm drill bits will be required for some designs.

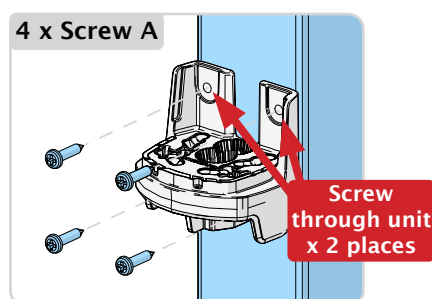
Rail Assembly

Fit **Rail Insert** as shown both ends.

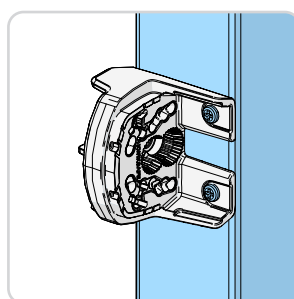


Installation Types

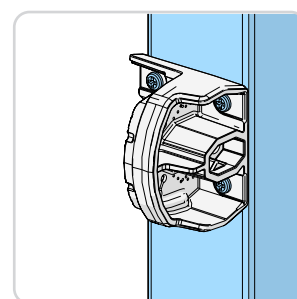
There are 3 typical different ways to install the **Universal Connector** to a 50x50 hollow member.



Upright Fit



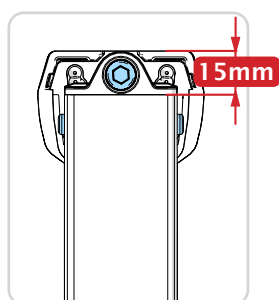
Outside Fit



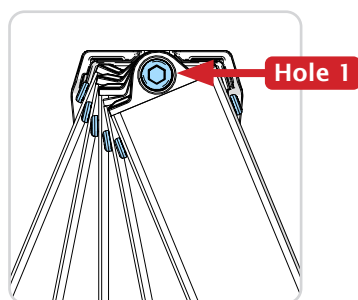
Inside Fit

Rail Positions

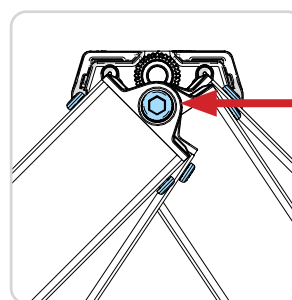
When following the dimensions stated on Kwiktech drawings, the angles will be predefined. Just select the correct hole when fitting.



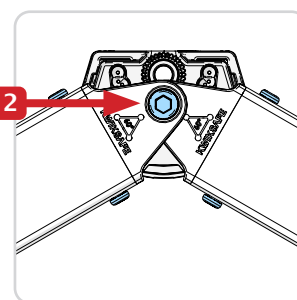
0°



0° - 22.5° Angles



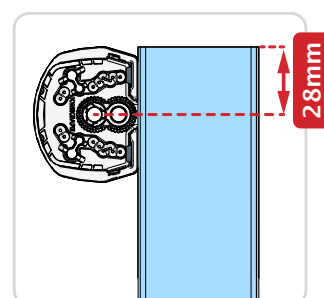
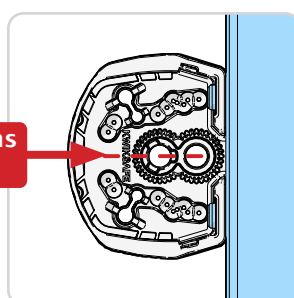
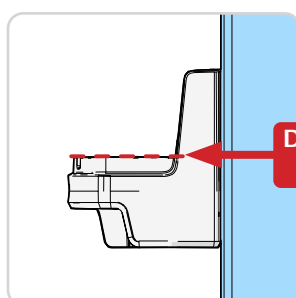
33.75° - 45° Angles



60° Angle

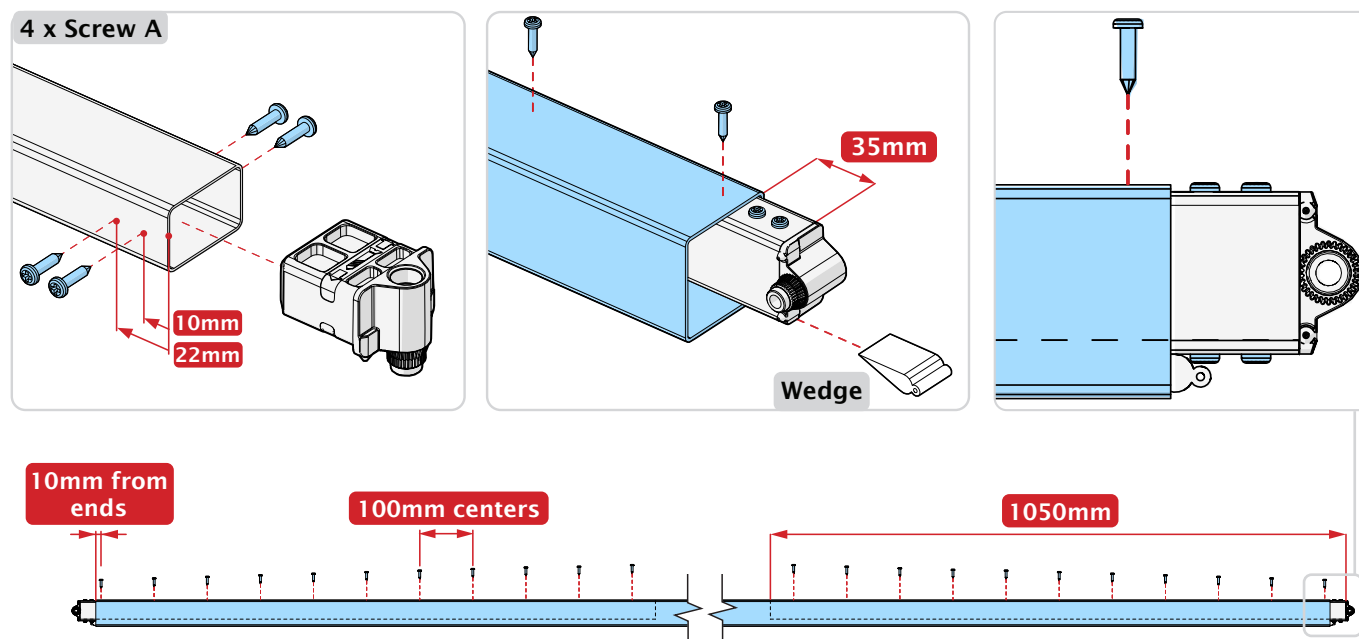
Reading Drawings

When reading Kwiktech drawings the dimensions will refer to these centre positions on the **Universal Connector**.



Extra Strong Rail Assembly

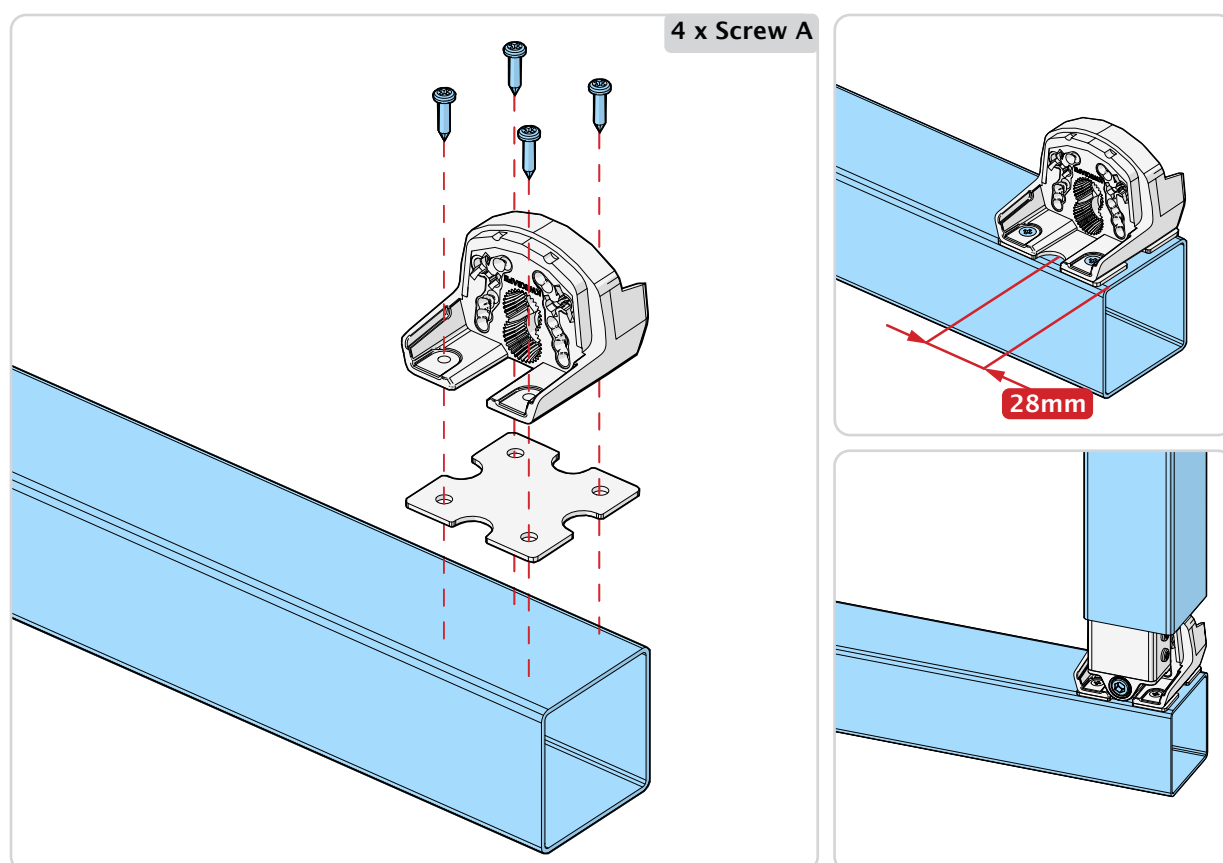
Fit Rail Insert as shown both ends.



Start fixing screws from the end closest to the Rail Insert. Temporary wedge to assist securing steel members together. Remove wedge after first screw is fixed.

Load Displacement Plate Assembly

Only needed where specified on drawings.



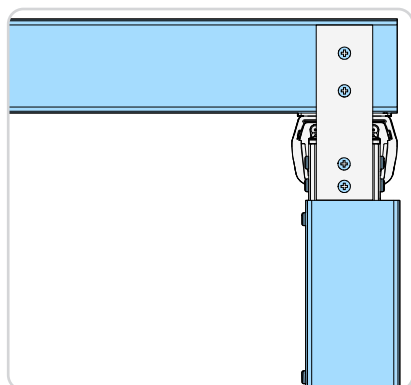
Tension Strapping

10gx16 Philips Flat Top Screws (Screw B) used for all steps.

2 Screws used at each end of Strapping.

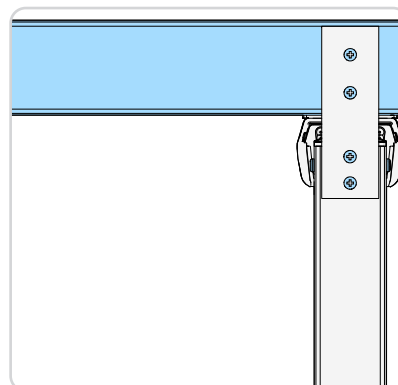
0° Intersection

50 to 50



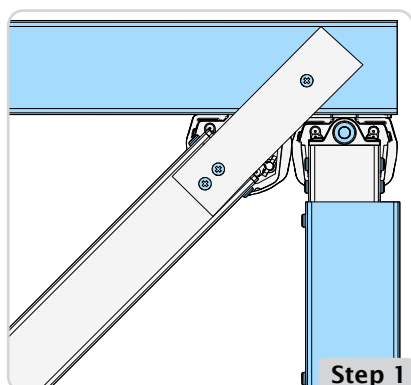
95mm long strap

50 to 38

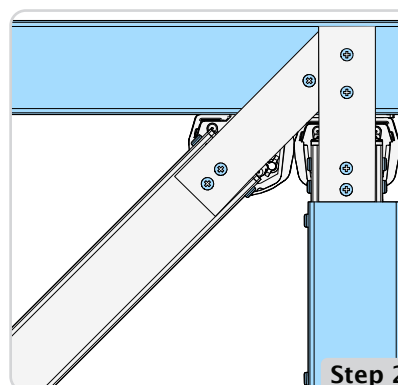


95mm long strap

Double Intersection

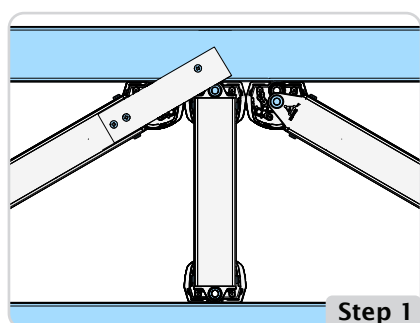


135mm long strap on diagonal

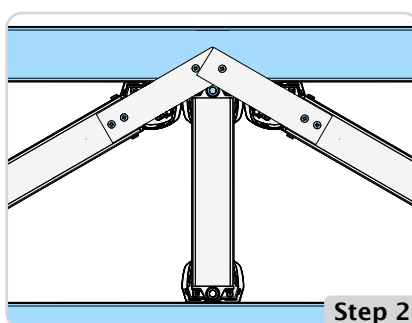


95mm long strap on 0° Connection

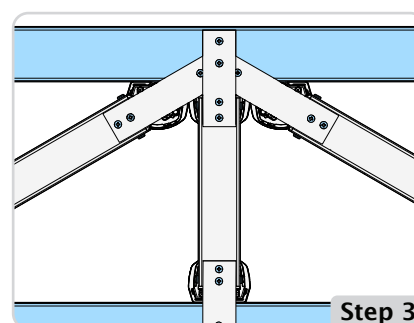
Triple Intersection



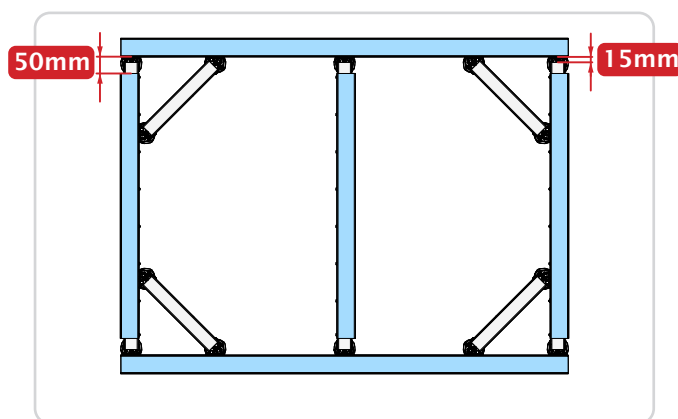
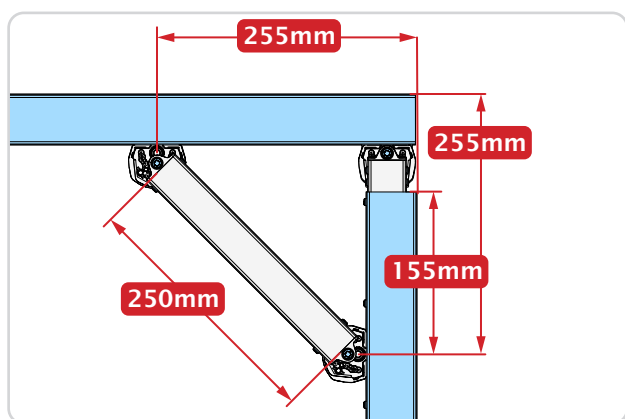
135mm long strap on diagonals



95mm long strap on 0° Connection



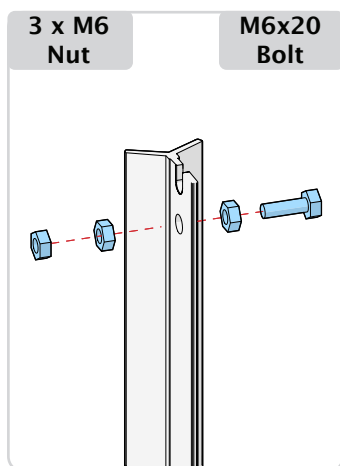
50 to 50 Corner Brace



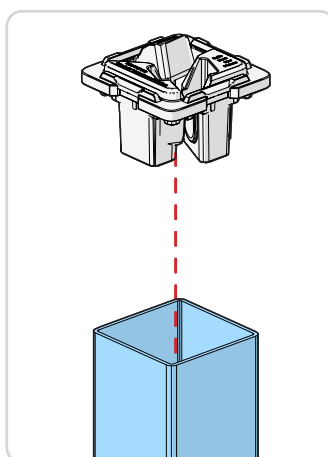
Example 1

Star Picket Stopper & Cap

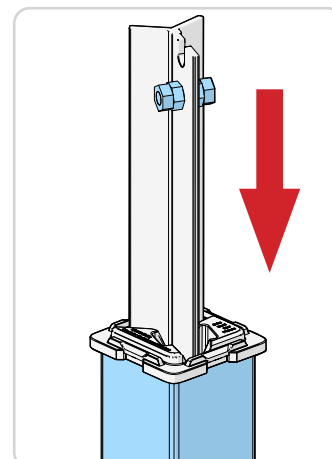
Standard Star Picket to be a minimum of 400mm longer than its 50x50 housing.



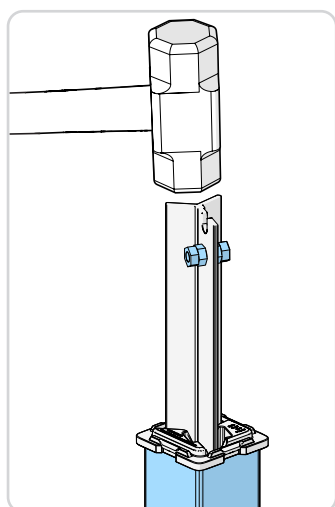
Fit bolt through top hole in star picket & secure with nuts



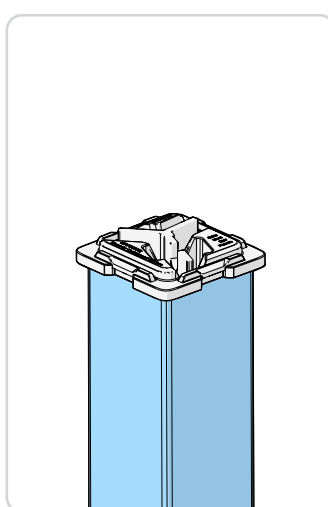
Lower star picket stopper into the 50x50 member



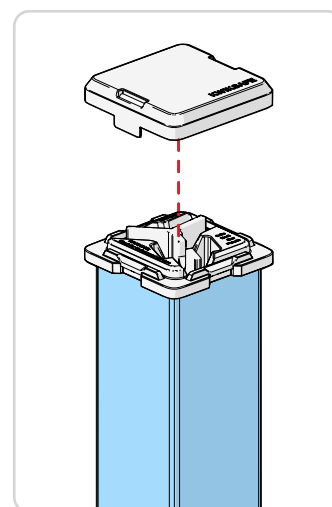
Place star picket through the designated slot



Hammer star picket down until bolt assembly rests in the stopper

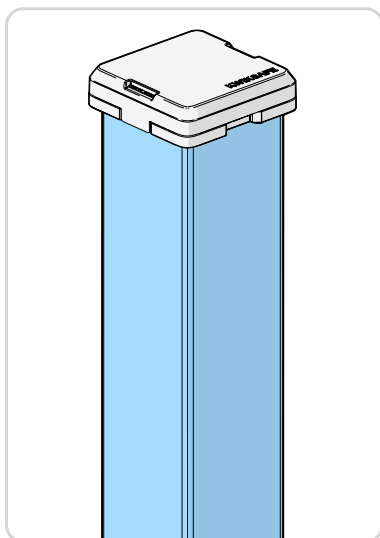


CAUTION: Stopper not designed for impact. Do not continue to hammer once bottomed on stopper

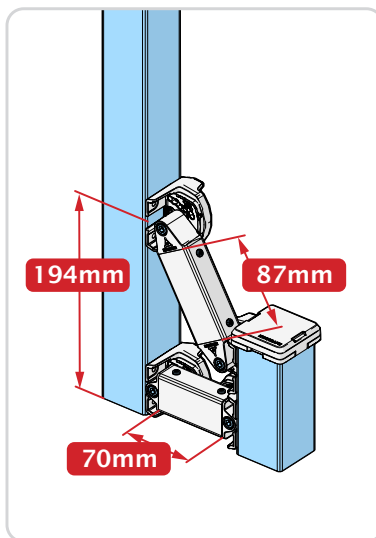


Press and click cap onto stopper unit

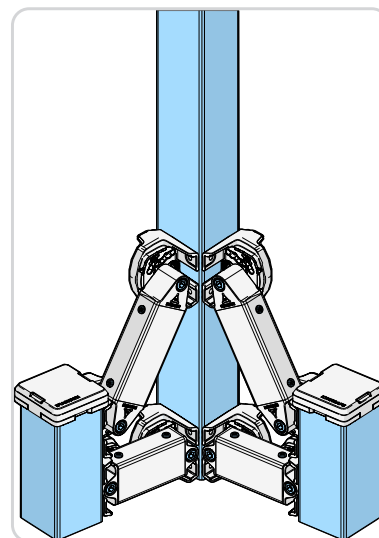
Stair Picket Stopper & Cap



Finished assembly



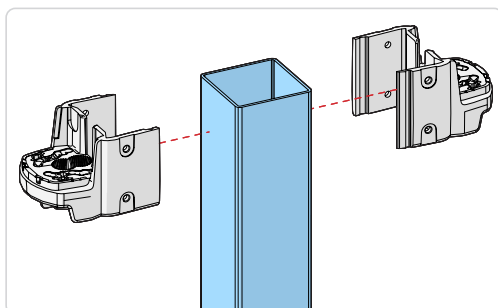
Example 1



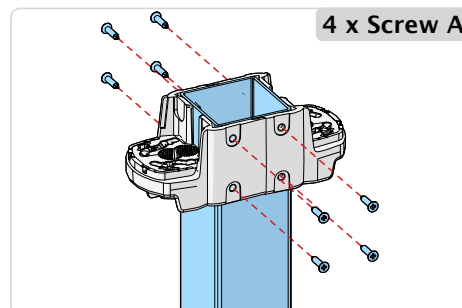
Example 2

Post Connector

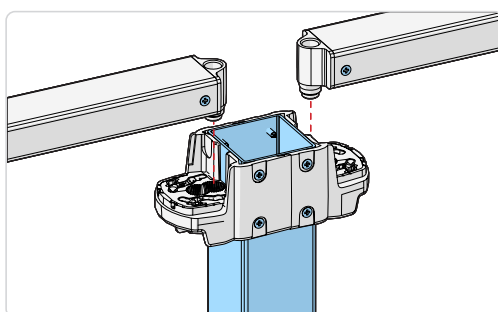
Click fit to 50x50 posts.



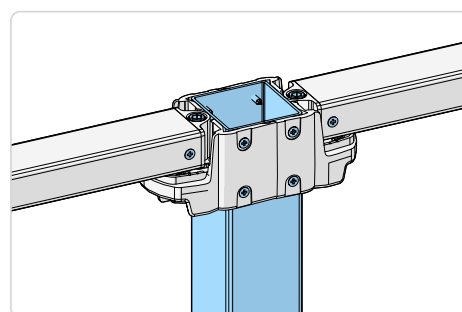
Press and click both
Post Connectors onto
50x50 SHS



Screw fix to the SHS

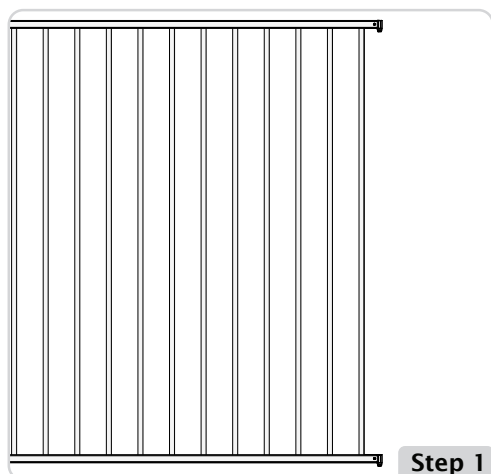


Place Rails in correct
hole position and angle

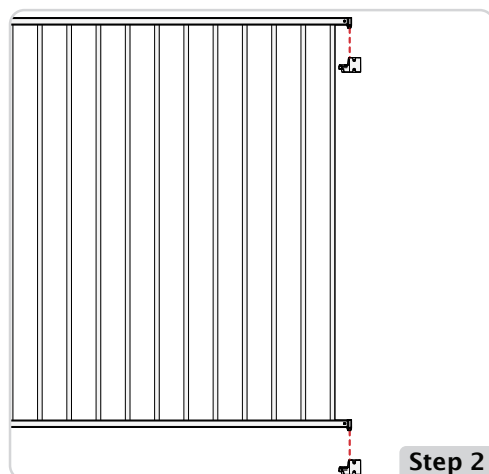


Secure Rails as per
standard Rail Assembly

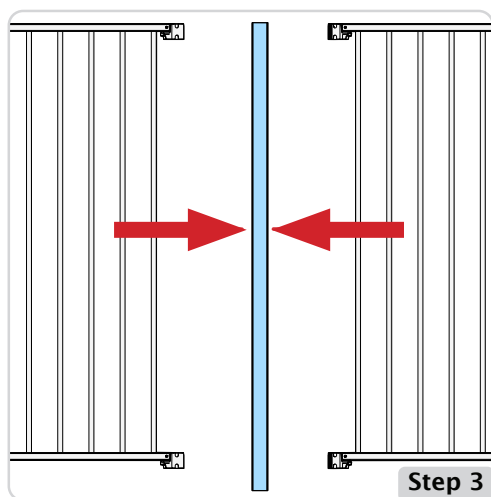
Fencing Assembly



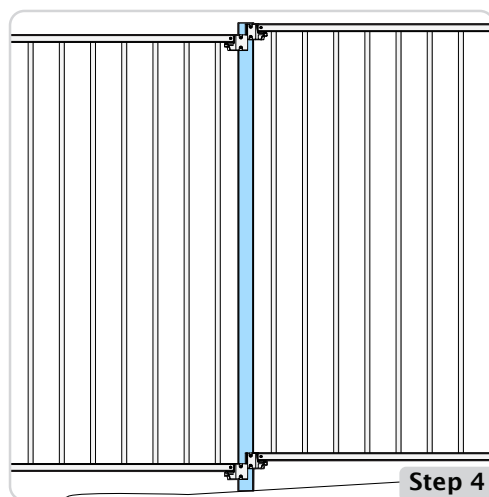
Insert Rail Inserts into the 38x25 and screw fix



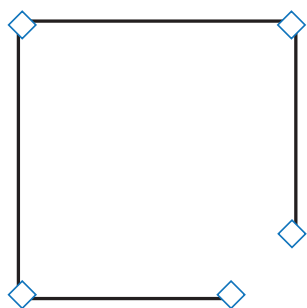
Attach Post Connectors at the correct angle for the desired perimeter and lightly fit with Socket-head Cap Screws



Align Post Connectors.
Click onto the post

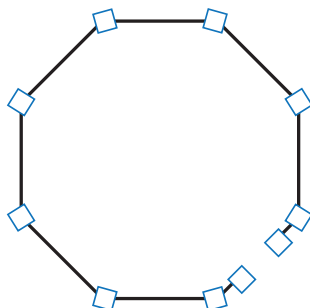


Level fence panels and screw fix in position, then tighten all Socket-head Cap Screws



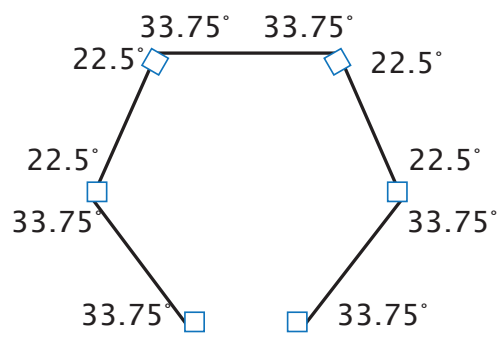
Square Perimeter
45° Connection

5.6m²
(2.4m long panels)



Octagon Perimeter
22.5° Connection

27.8m²
(2.4m long panels)



Polygon Perimeter
Different Angle Connections

13.2m²
(2.4m long panels)

Test Specifications

AS/NZS 1170.0-2002

CONNECTION TYPE	ID #	COMPRESSION NEWTONS	TENSION NEWTONS	TENSION WITH STRAP NEWTONS*
Universal Connector + Rail Insert - 0°	1	3000	2000	5600
Universal Connector + Displacement Plate + Rail Insert - 0°	2	11500	2000	5600 - Ref ID #1
Universal Connector Rotated 90° + Rail Insert - 0°	3	8500	2000 - Ref ID #1	Not Applicable
Universal Connector + Rail Insert - 22.5°	4	12000	2000	5600
Universal Connector + Rail Insert - 45°	5	3800	2500	6000
Universal Connector + 60° Rail Insert - 60°	6	3800	3000	6000
Post Connector + Rail Insert (4 Screws) - 0°	7	8500 - Ref ID #3	3500	Not Applicable
Post Connector + Rail Insert (4 Screws) - 22.5°	8	8000	3500	Not Applicable
Post Connector + Rail Insert (4 Screws) - 45°	9	3800	3500	Not Applicable
Star Picket Stopper	10	3500	Not Applicable	Not Applicable

* 1 Screw at each end of Galvanized 0.8mm x 30mm wide Strapping - 10gx16 Phil Small Head Flat Top (Screw B)

