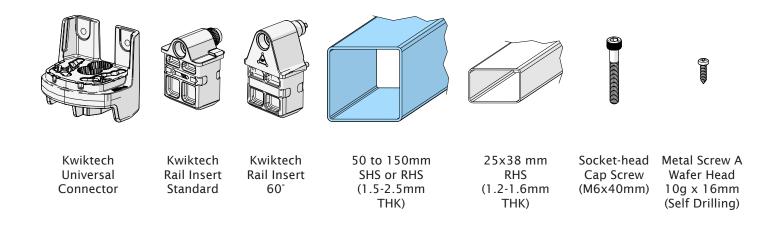


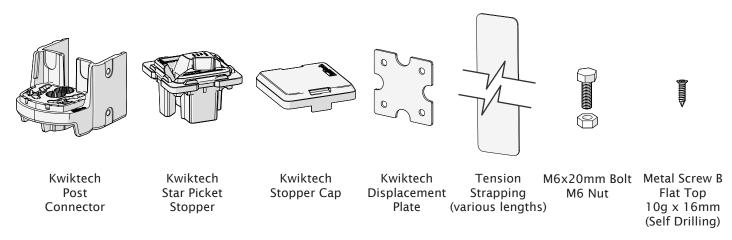
Common Products

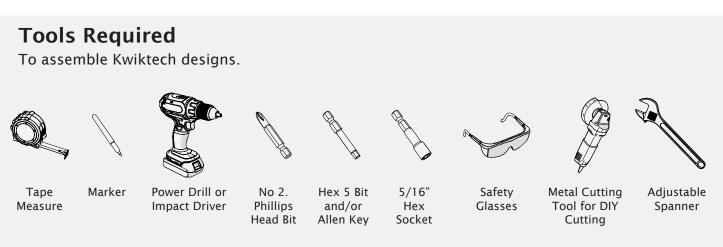
Products needed to assemble Kwiktech designs.



Additional Products

Additional products needed to assemble some Kwiktech designs.





Additional safety, clamping and access equipment maybe required at the users discretion. 3.5mm and $13mm \emptyset$ drill bits will be required for some frame work designs.



adjacent nut

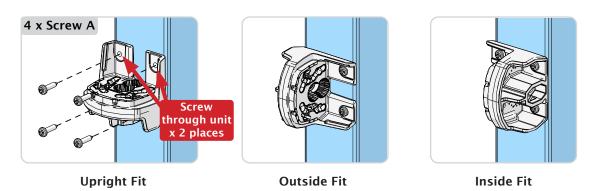
Rail Assembly

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



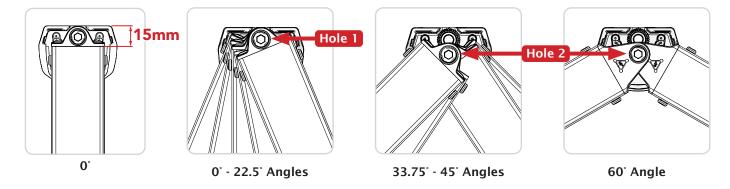
Installation Types

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



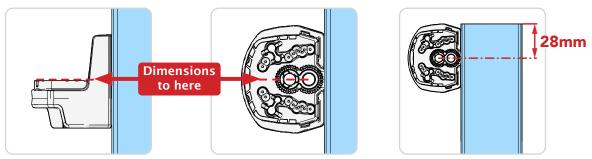
Rail Positions

When following the dimensions stated on Kwiktech drawings, the angles will be predefined by the **Universal Connector** placement and rail length. Just select the correct hole when fitting.



Reading Drawings

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

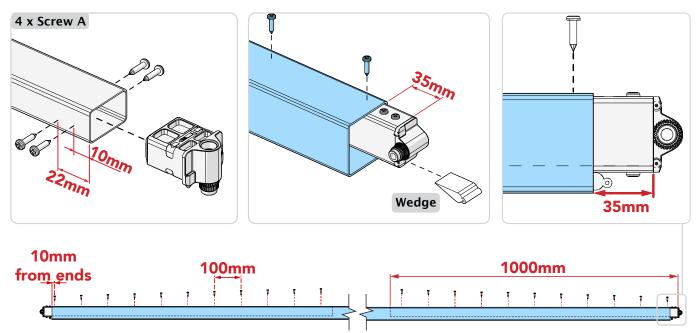


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Extra Strong Rail Assembly

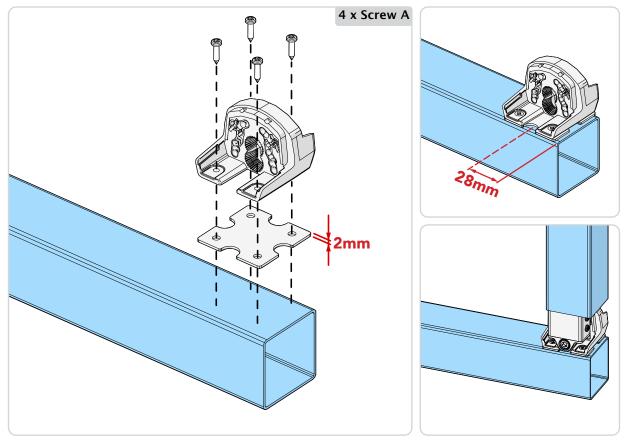
Fit **Rail Insert** as shown both ends. 2x additional screws to fix Rail Insert only when specified on drawings. Assembly wedge supplied in some Kwiktech DIY Kits.



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

Load Displacement Plate Assembly

Only needed where specified on drawings. Used to strengthen light-gauge member wall surface.

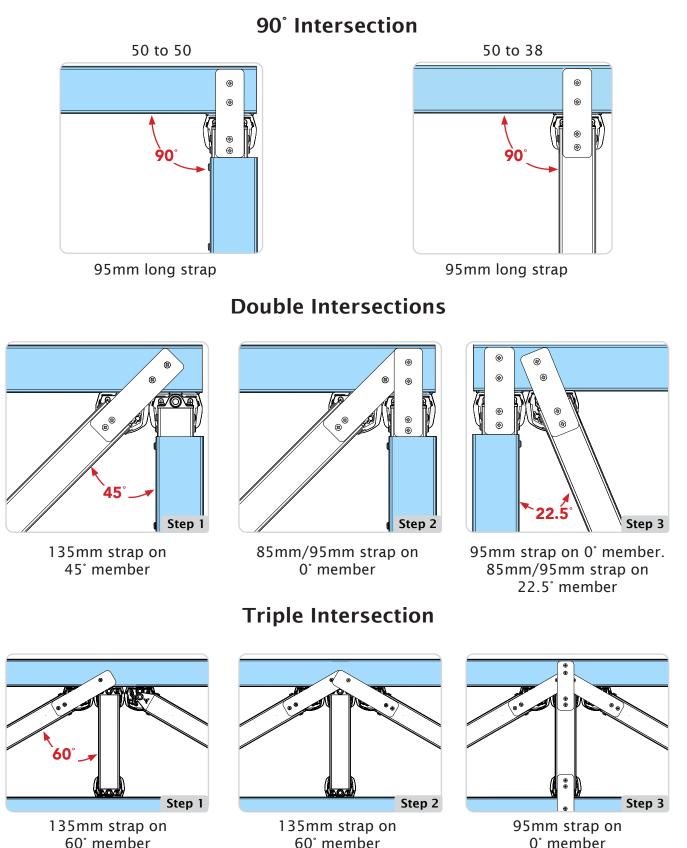


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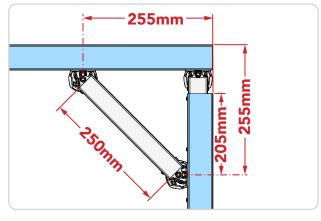
Tension Strapping

10gx16 Self Drilling small head Flat Top Screws (Screw B) used for all steps. 2 Screws used at each end of Strapping. Refer to **Kwiktech Trusses Manual** for member cut lengths & Universal Connector positioning measurements.

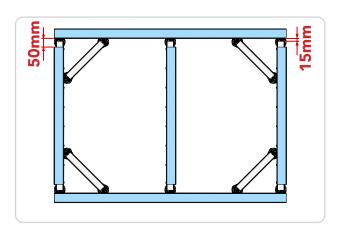




50 to 50 Corner Brace



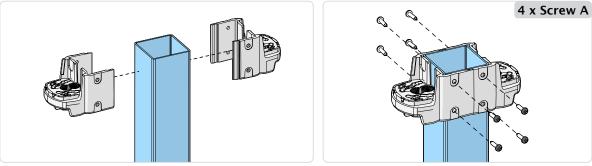
Refer to **"Easy Frame DIY"** on the Kwiktech website for cross bracings from $1m \times 1m$ up to 2.4m x 2.4m in 100mm increments.



Example 1

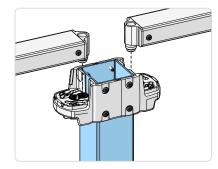
Post Connector

Click fit to 50x50 posts.

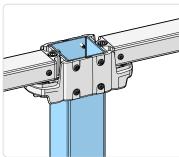


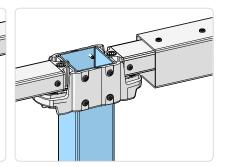
Press and click both Post Connectors onto 50x50 SHS

Screw fix to the SHS



Place Rails in correct hole position and angle



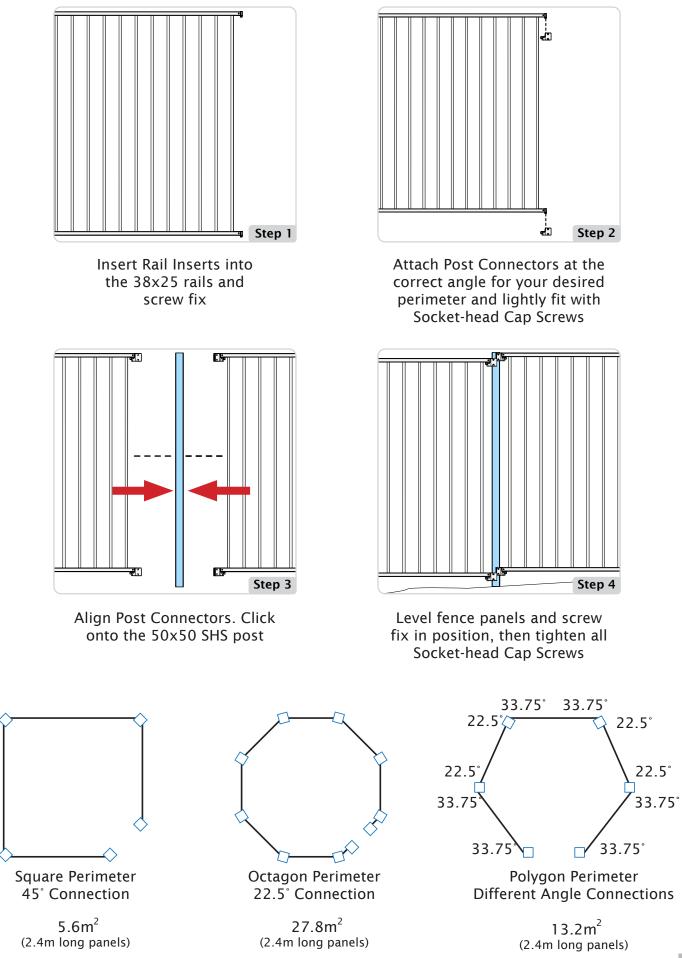


Secure Rails as per standard Rail Assembly

Option; Attatch larger hollow section for longer spans



Fencing Assembly

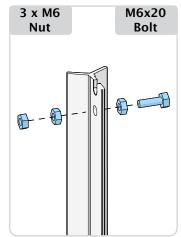


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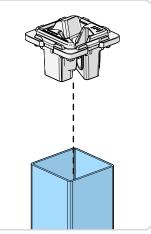


Star Picket Stopper & Cap

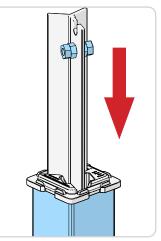
Standard Star Picket to be a minimum of 400mm longer than its 50x50 post.



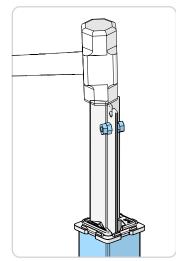
Fit bolt through top hole in star picket & secure with nuts



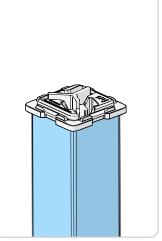
Lower star picket stopper into the 50x50 member



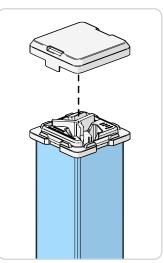
Place star picket through the designated slot



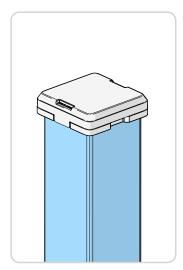
Hammer star picket down until bolt assembly rests in the stopper



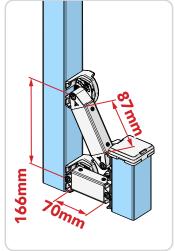
CAUTION: Stopper not designed for impact. Do not continue to hammer once bottomed on stopper



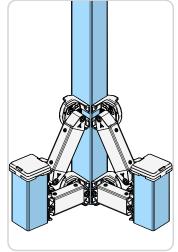
Press and click cap onto stopper unit



Finished assembly







blyExample 1Example 2© Kwiktech Pty Ltd 2018-2023. All rights are reserved.

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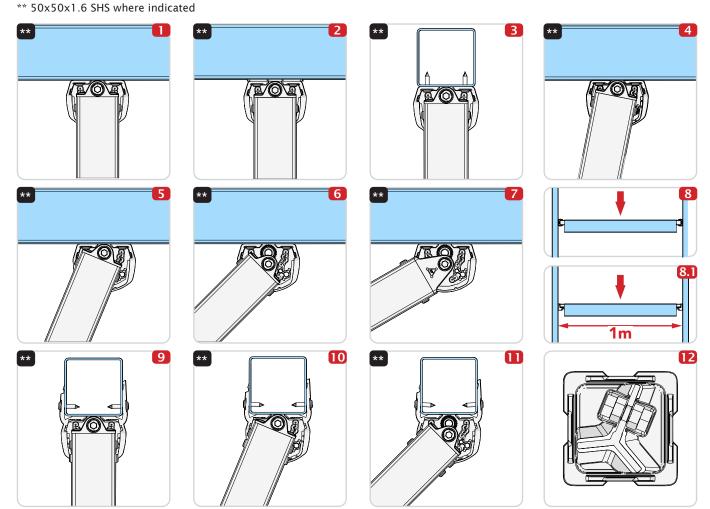
2248lbs

Test Specifications

AS/NZS 1170.0-2002		Newtons	Kilogram	Or Pound Force
CONNECTION TYPE	ID #	COMPRESSION NEWTONS	TENSION NEWTONS	TENSION WITH STRAP NEWTONS*
Universal Connector + Rail Insert - 0°		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 - 11.25°	4	11000	2000 - Ref ID #1	5600 - Ref ID #1
Universal Connector + Rail Insert - 22.5°	5	12000	2000	5600
Universal Connector + Rail Insert - 45°	6	3800	2500	6000
Universal Connector + 60° Rail Insert - 60°	7	3800	3000	6000
Universal Connector + Rail Insert - 0° Load Test 1m span	8	10000	Not Applicable	Not Applicable
Universal Connector + Rail Insert - 0° Load Test 1m span	8.1	10000	Not Applicable	Not Applicable
Post Connector + Rail Insert (4 Screws) - 0°	9	8500 - Ref ID #3	3500	Not Applicable
Post Connector + Rail Insert (4 Screws) - 22.5°	10	8000	3500	Not Applicable
Post Connector + Rail Insert (4 Screws) - 45°		3800	3500	Not Applicable
Star Picket Stopper	12	3500	Not Applicable	Not Applicable

1019kg

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



Refer to next page for additional load testing.

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Test Specifications AS/NZS 1170.0-2002	L	10,000N Newtons =	= 1019kg Kilogram Force	Or 2248lbs Pound Force
CONNECTION TYPE	ID #	COMPRESSION NEWTONS	TENSION NEWTONS	TENSION WITH STRAP NEWTONS*
Universal Connector + Rail Insert - 0° Load Test 1m span	B	7000	Not Applicable	Not Applicable
Universal Connector + Rail Insert - 33.75° Load Test 1m span	14	7500	Not Applicable	Not Applicable
Universal Connector + Rail Insert - 0° onto 50x50x2.5mm SHS	15	11500	2000 - Ref ID #1	5600 - Ref ID #1
Universal Connector + Rail Insert - 0° onto 65x65x1.5mm SHS	16	10000	2000 - Ref ID #1	5600 - Ref ID #1
Universal Connector + Rail Insert - 0° onto 100x100x2.4mm SHS	17	11500	2000 - Ref ID #1	5600 - Ref ID #1

