

#### **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 x 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



Additional Bracing Options

blyExample 1Example 2© Kwiktech Pty Ltd 2018-2025. All rights are reserved.

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#### **Build Guide Rev 1.6**

# **Test Specifications**

Test Specifications		10,000N Newtons	() 1019kg Kilogram	$Or \sqrt{\frac{2248lbs}{Pound}}$	
AS/NZS 1170.0-2002		Force 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 - $0^{\circ}$	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 5.1	12000	2000	5600 & 10000 <b>5.1</b>	
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) - $0^{\circ}$	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°	I	3800	3500	Not Applicable	
Star Picket Stopper	12	3500	Not Applicable	Not Applicable	

\* 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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#### **Build Guide Rev 1.6**

2248lbs

Pound Force

ENSION WITH STRAP NEWTONS\*

Not Applicable

Not Applicable

5600 - Ref ID #1

5600 - Ref ID #1

Test Specifications AS/NZS 1170.0-2002	L	10,000N Newtons =	1019kg Kilogram Force	or
CONNECTION TYPE	ID #	COMPRESSION NEWTONS	TENSION NEWTONS	TEN
Universal Connector + Rail Insert - 0° Load Test 1 m span	13	7000	Not Applicable	
Universal Connector + Rail Insert - 33.75° Load Test 1m span	14	7500	Not Applicable	
Universal Connector + Rail Insert - 0° onto 50x50x2.5mm SHS	Œ	11500	2000 - Ref ID #1	5
	1	1	1	1

Universal Connector + Rail Insert - 0° onto 65x65x1.5mm SHS



16

10000

2000 - Ref ID #1

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