

## What you require

### For Tightening

Large shifter or pinch bar

### For Steel Post Connections

3/8" Tek Driver, Drill,

24 x 14 Guage Tek Screws (Supplied with each set)

## Assembling The Cross Bracing

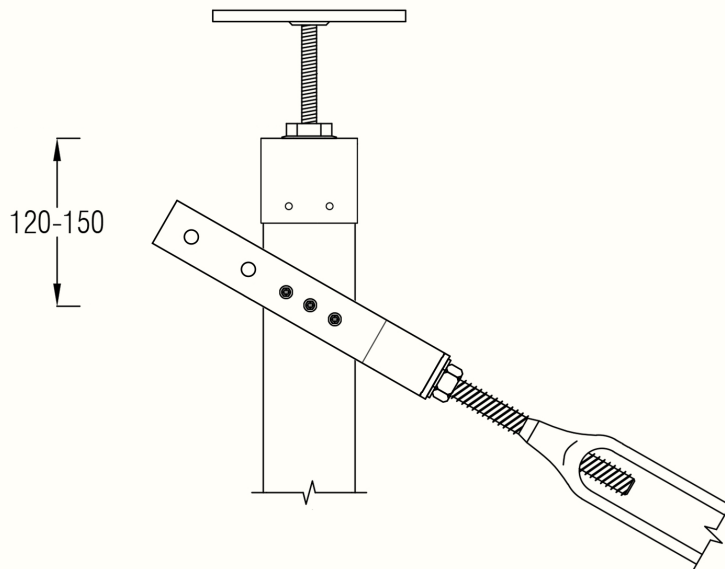
Each cross bracing set will be in a bag with 6 lengths of threaded rods and once assembled there will be 2 complete lengths ready to make the 'cross'. The length of threaded rod with the larger bracket needs to be connected to the length with the coupler and then attached to the length with the small bracket *as shown below*.



LevelMaster's cross bracing set will have a diagonal length of roughly 3m, if you need a shorter bracing set than the threaded rod can be cut down. If you need a long bracing set than extra lengths of M16 threaded rod can be added with more 16mm coupler nuts.

Each side of the larger bracket has 3 x 8mm holes for attaching to SHS and 2 x 14mm bolt holes for connecting to bearers.

The large bracket needs to be attached first (just one tek screw or bolt each side to begin with) and it needs to be 120-150mm below LevelMaster adjustable heads *See the image on the right* or for fixed stumps 120-150mm below the bearer.



## Assembling The Cross Bracing Continued

Next attach the small bracket to the bottom of the second stump or if this is specified then attach to the location as per the structural engineering.

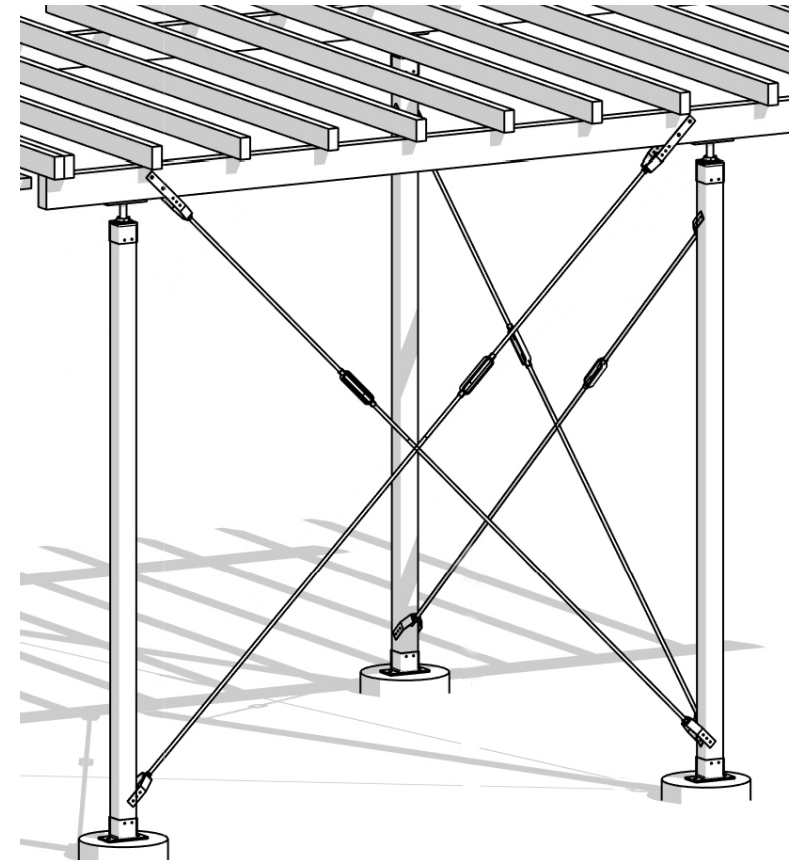
Attach all tek screws, 3 each side to both the top and bottom brackets (24 per set). Unless you are attaching to the bearer in which case attach 3 tek screws each side to the bottom bracket and 2 x M12 bolts through the top bracket and bearer.

Finally use a pinch bar or large shifter to tighten the turnbuckle until the threaded rod is under tension but not so tight to warp the SHS. LevelMaster suggest checking the bracing set 3 months after installation to make sure it is still under tension and then annual checks for corrosion or loss of tension.

### *Notes:*

*The end bracket is considered for use with a minimum post width of 75mm and maximum post width of 150mm.*

*The larger bracket can stick out past the SHS, this can be cut off but we recommend 2 x coats of cold gal spray after cutting for corrosion protection.*



## Statement Of Warranty

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All LevelMaster products are manufactured to the highest standards as outlined on our technical drawings. All LevelMaster components are hot dipped galvanised with a minimum thickness of 600g/m<sup>2</sup> *equivalent to 84µm thickness*. Design life is 50 years with all LevelMaster products being installed above ground *unless encased in concrete* and not covered in water. Products also need to be accessible for maintenance and periodic corrosion checks *LevelMaster recommends checks every 12 months*.

Our product is warranted against defects in materials and workmanship for 10 years from the date of original purchase.\* This warranty does not cover damage caused by improper installation, misuse, accident, or unauthorized modifications.

All components must be installed in accordance with our installation guidelines by a qualified contractor\*\* and are warranted under corrosion category C1-C4 as defined in ASA4312. Guidelines can be found on our website [www.levelmaster.com.au](http://www.levelmaster.com.au)

Warranty conditions apply to first-time installations only and do not apply to used or reinstalled components. These are in addition to your Consumer Rights and Guarantees under Australian law.

MATERIALS QUALITY NOTES*	
ALL LEVEL MASTER'S STEEL MATERIALS SHOWN IN THIS DRAWING TO BE G350 (U.N.O.).	
ALL LEVEL MASTER'S STEEL MATERIALS SHOWN IN THIS DRAWING TO BE HOT GALVANIZED WITH THE THICKNESS OF (MIN.) 600g/m <sup>2</sup> . (EQUIVALENT TO 84µm THICKNESS)	
DESIGN LIFE	50 YEARS
CONDITIONS	C1 - C4 CORROSION CATEGORY AS DEFINED IN AS4312
ALL HOUSE STUMP SERIES PRODUCTS TO BE USED ABOVE GROUND AND NOT COVERED IN WATER.	
ALL HOUSE STUMP SERIES PRODUCTS ARE TO BE ACCESSIBLE FOR PERIODIC CORROSION CHECKS AND MAINTENANCE.	

\*CERTIFICATES PROVIDED BY THE MANUFACTURER.

*\*Please note LevelMaster also sells 3rd party products such as steel hollow section, stair treads and fixings. All these products are manufactured to the appropriate Australian standards. The OEM of these products are responsible for the manufacturing quality and warranty of these products. LevelMaster will work with our customers if any warranty claims are raised for these products.*

*\*\*Please check with your local state building authority as variations may exist on project authority levels.*