

Big Shady Construction Manual Part 1













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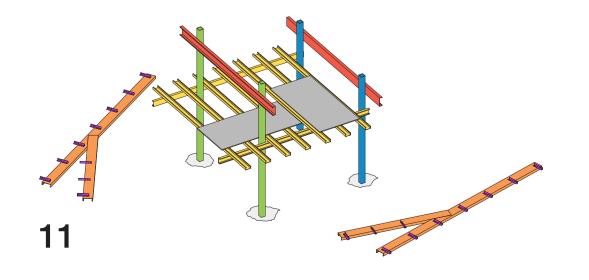
Melbourne School of Design

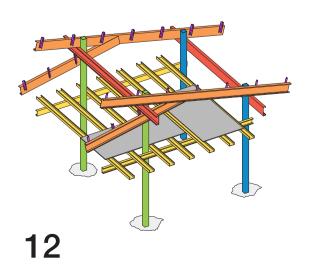
Big Shady Construction Manual Part 1

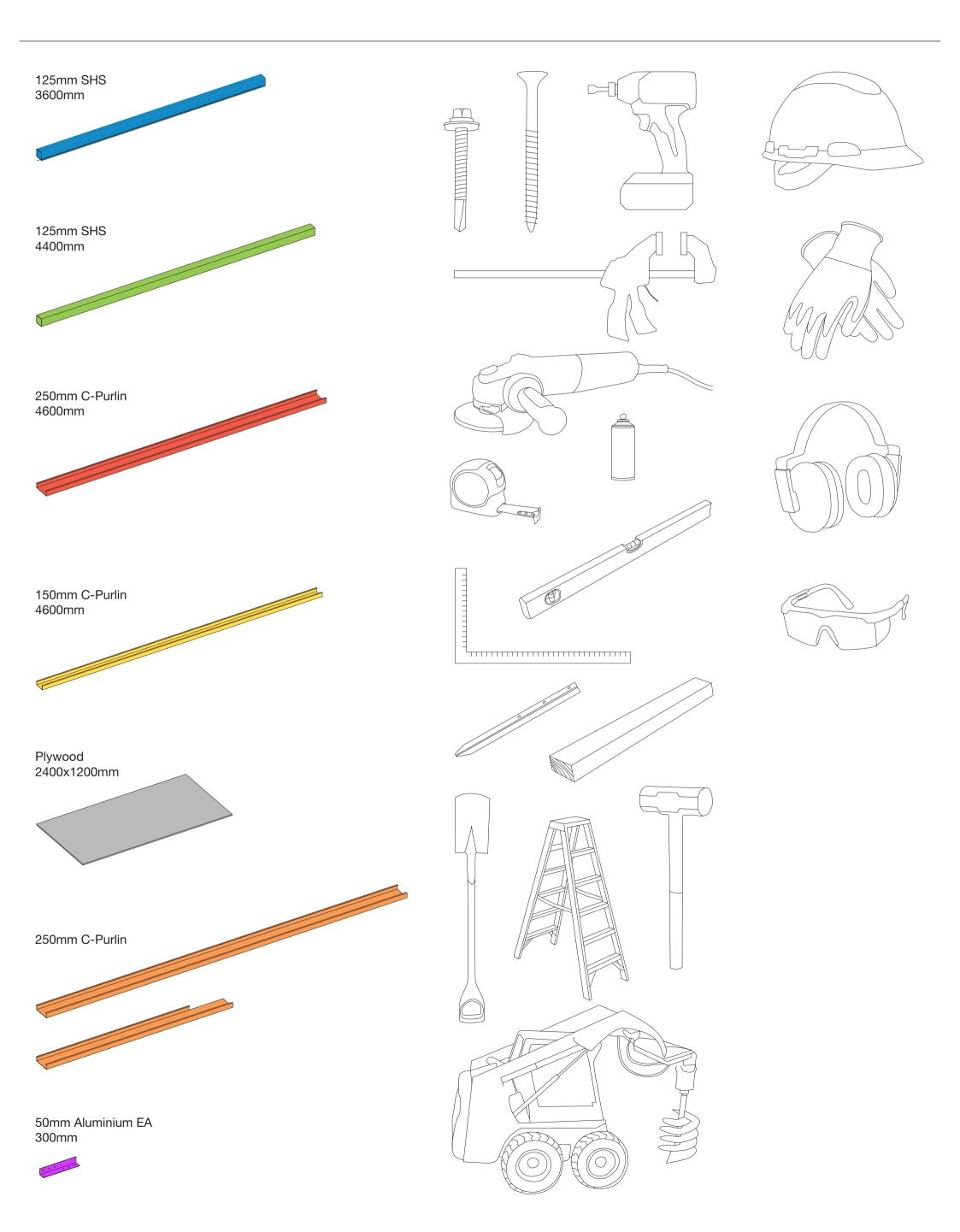
This instruction manual has been developed as a reference tool for the Gurindji Aboriginal Corporation to aid the construction process of a number of shade pavilions to be constructed around the community of Kalkaringi.

Many thanks to the Gurindji Aboriginal Corporation and the Kalkaringi community for the opportunity to work alongside them on this project.

Overview

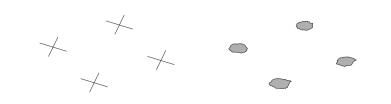




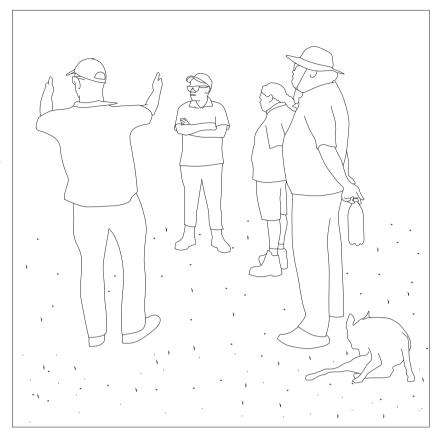


Step 1 - Prepare Site

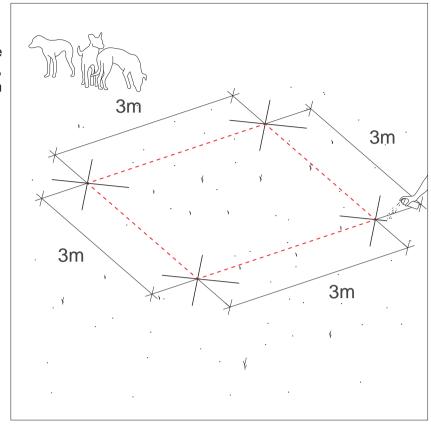




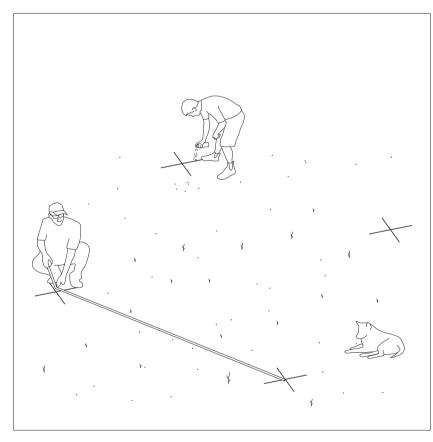
Yarn about the best spot for the Big Shady. Is it shading morning or afternoon sun?



Mark a square on the ground, 3m x 3m in size.



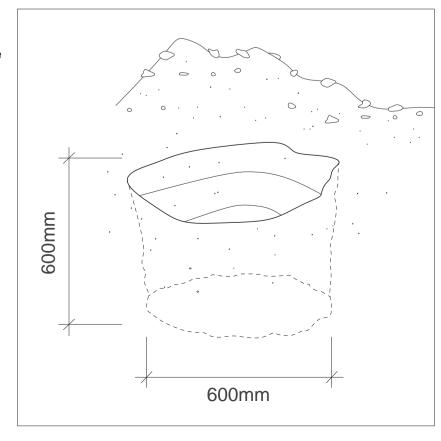
Double check the size of the square.



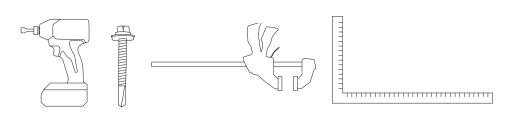
Dig the 4 holes!

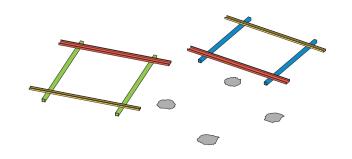


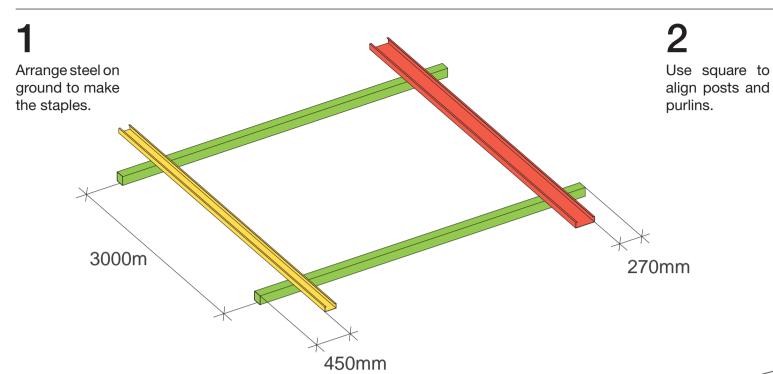
Ensure the holes are 600mm wide, and 600mm deep.

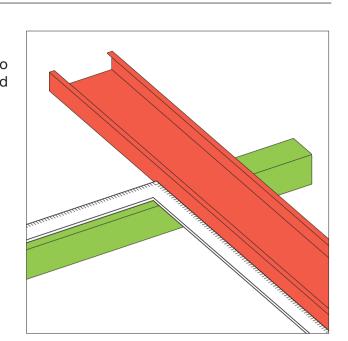


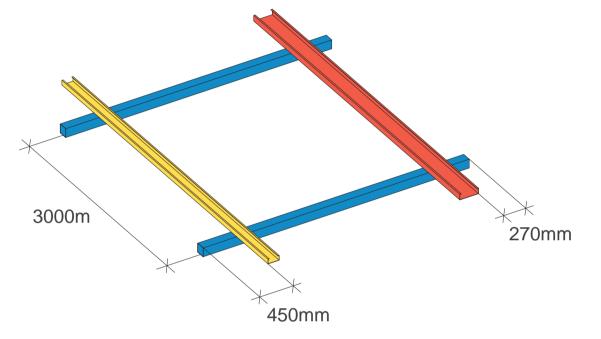
Step 2 - Make Staples



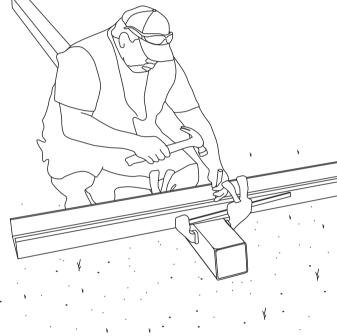


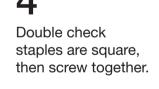


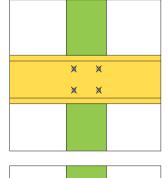


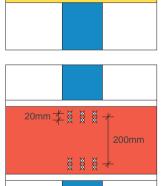


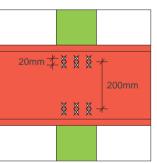
Clamp steel together and mark spots for screws using a steel punch.

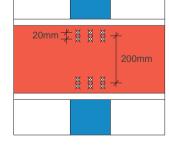


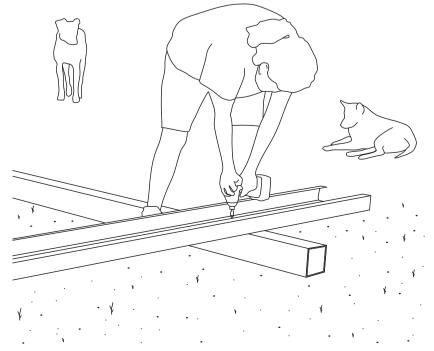


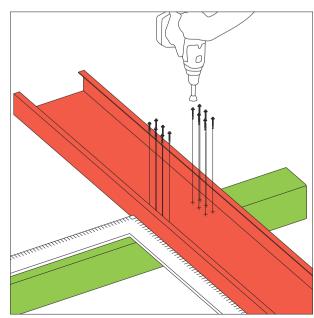


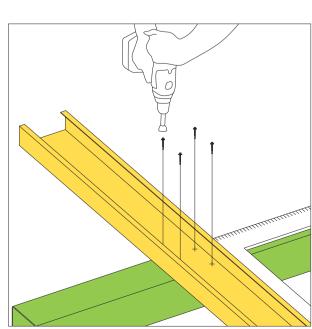




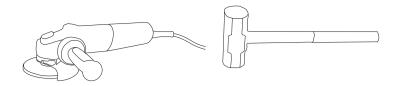


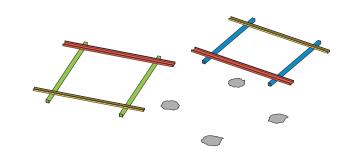


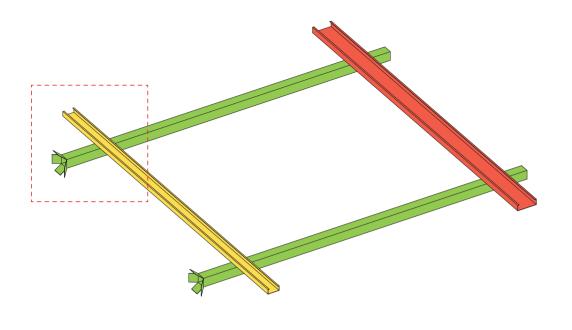


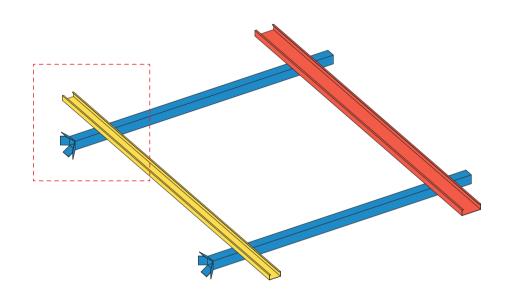


Step 3 - Cut & Bend Posts



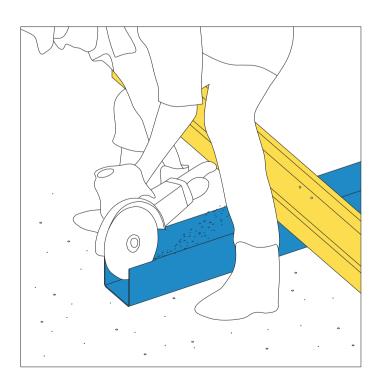




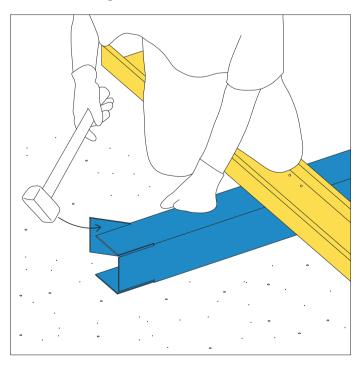




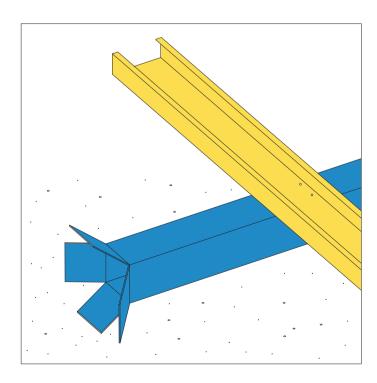
1Grind corners.



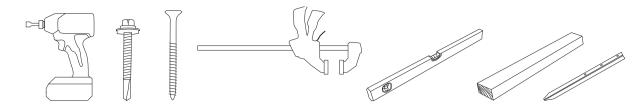
Use a mallet to bend the steel 45 degrees.

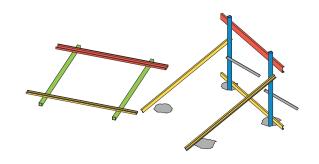


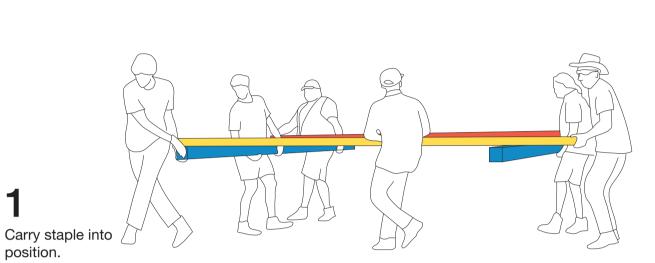
Repeat for all sides.



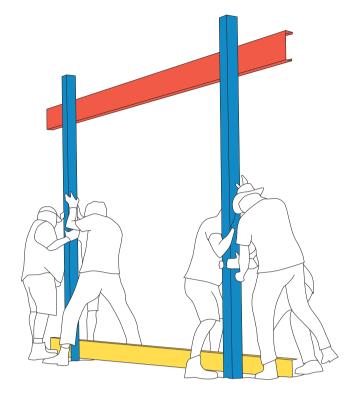
Step 4 - Lift Staple





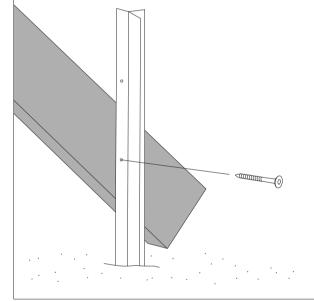


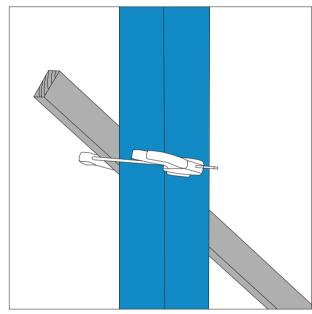
Place over holes.

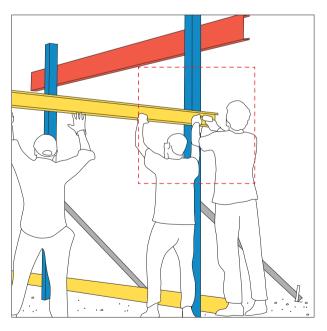


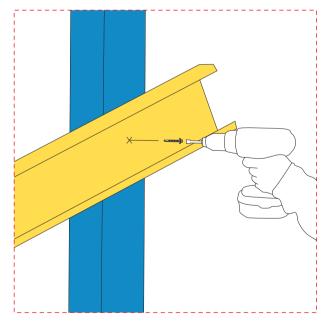
Make timber brace & clamp in place.



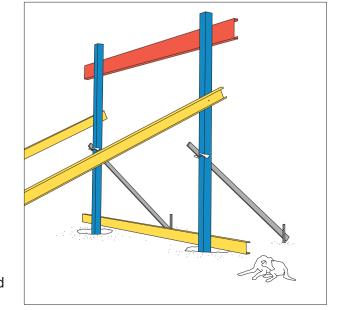






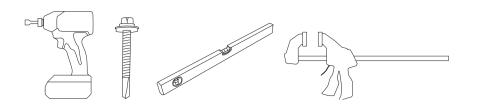


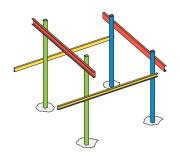
Lift steel brace & screw in place.



Double check steel is braced properly.

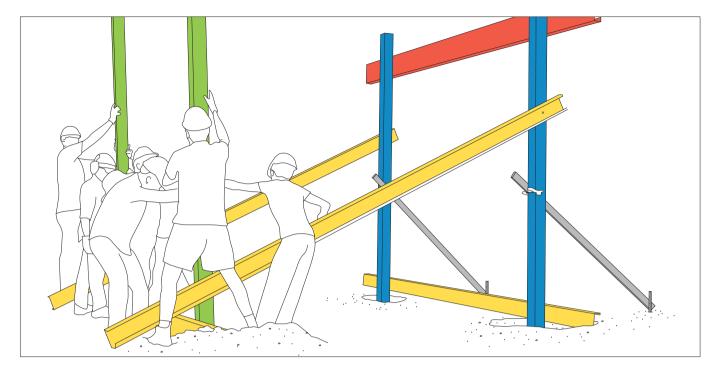
Step 5 - Lift Staple 2



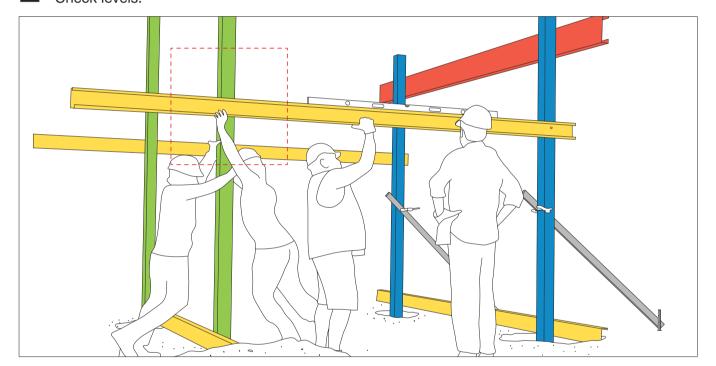


1

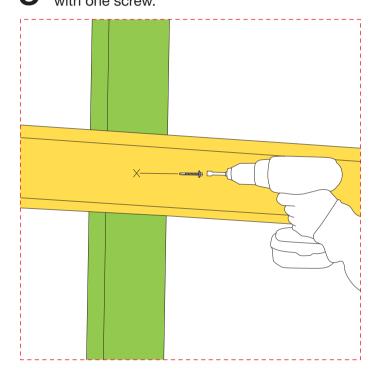
Carry second staple into position. Place over holes.

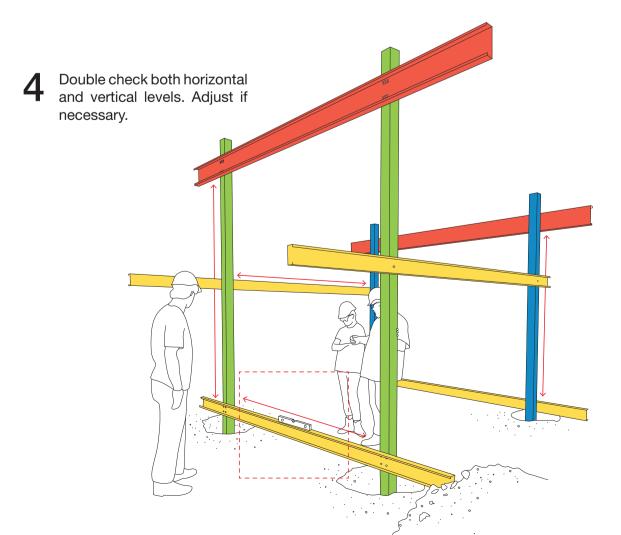


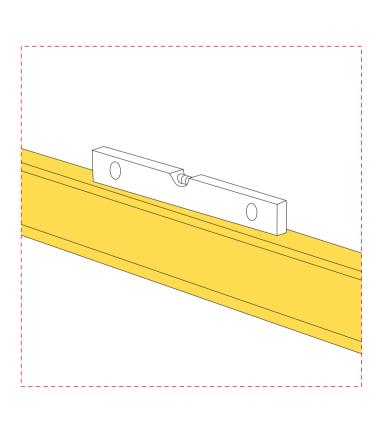
2 Make sure posts are straight. Check levels.



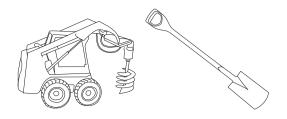
Once staples are level, fix brace with one screw.





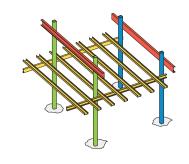


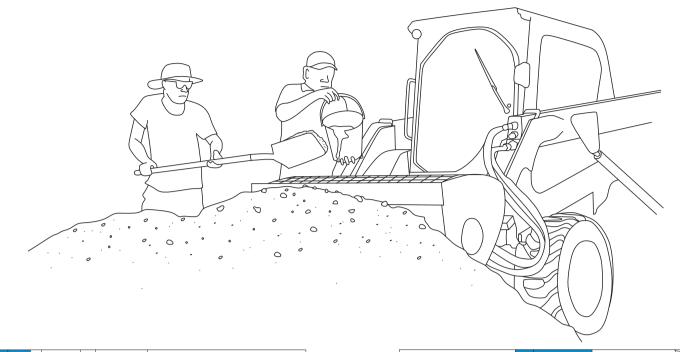
Step 4 - Mix & Pour Concrete



Mix the concrete and

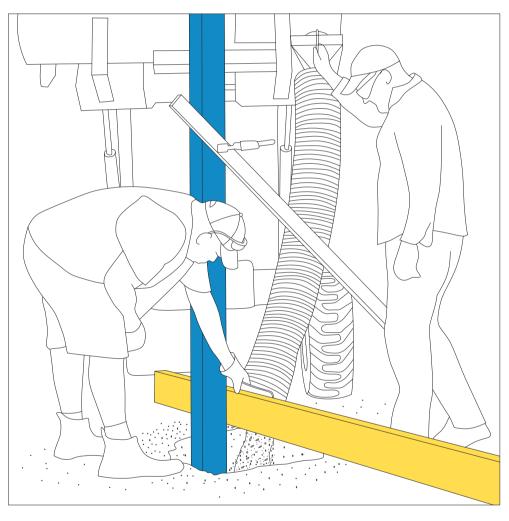
fill the holes.

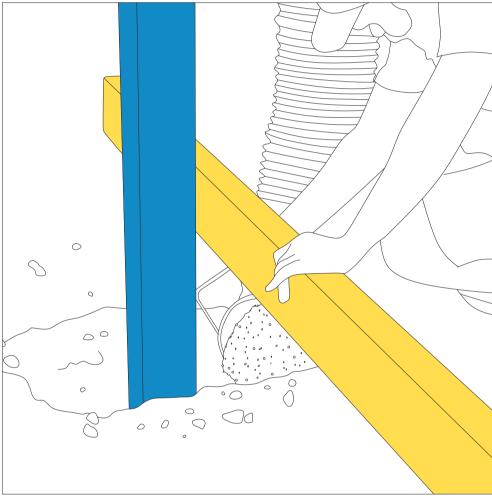


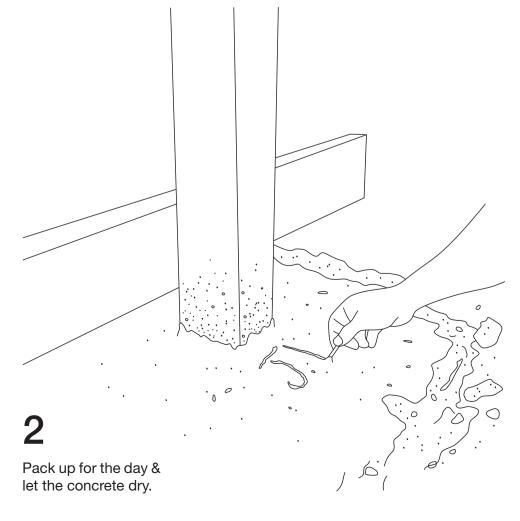


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Be careful not to move the staples when filling the holes with concrete.

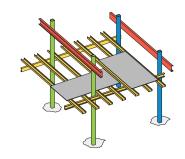






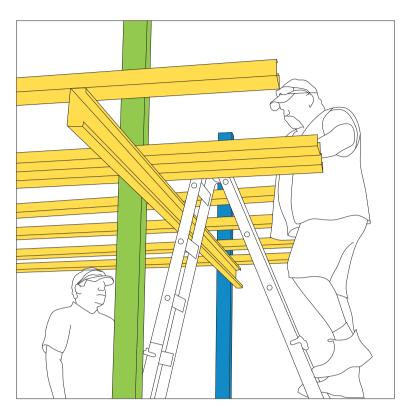
Step 7 - Make Scaffold





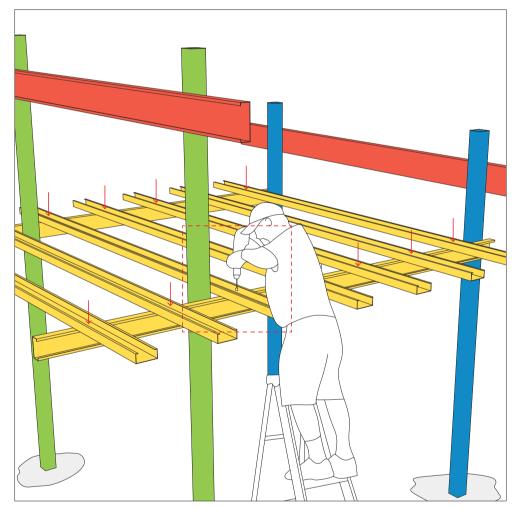
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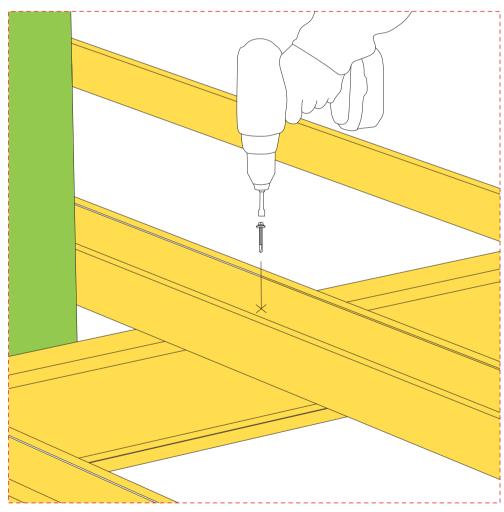
Place purlins on top of the brace made in Step 5.

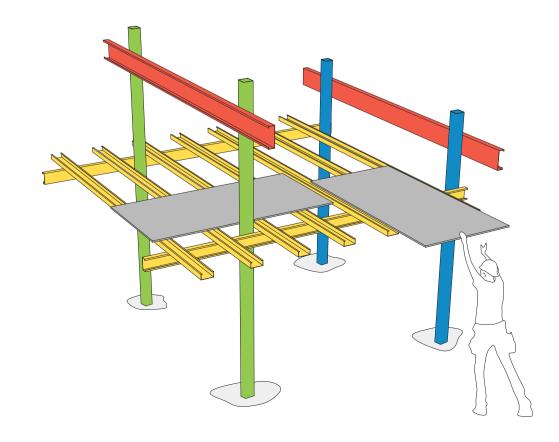


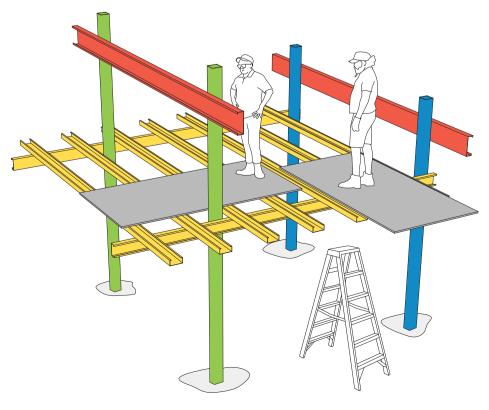
2

Screw down every purlin at both ends with one screw.



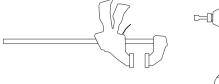


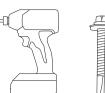


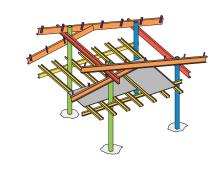


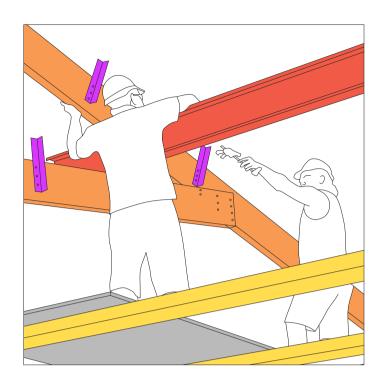
Step 8 - Make Big Y 2 Use a grinder Arrange the first Y on the to make the ground. 550mm cut as shown. 550mm Join the two parts of the Big Y and screw together. 2600mm Align purlin brackets and screw to the Big Y. 5 Flip the Big Y to use as a template. Repeat Steps 1-4 to make the

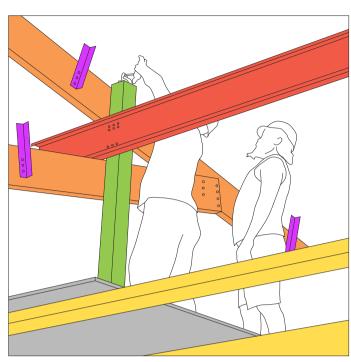
Step 9 - Attach Big Y's

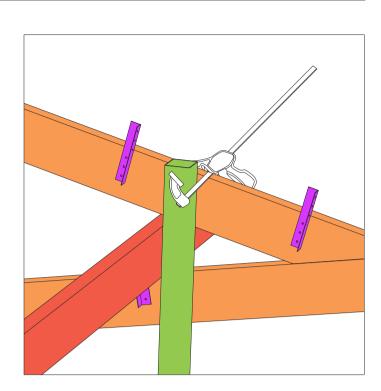




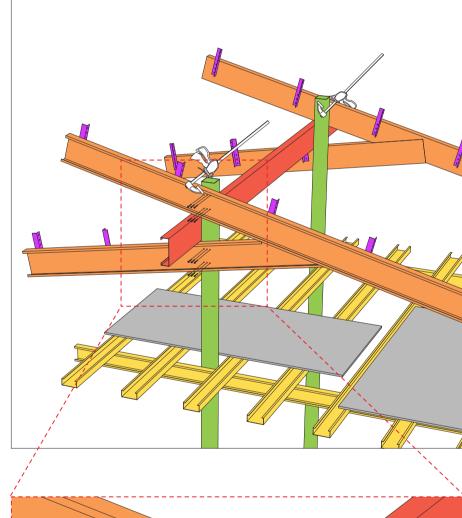




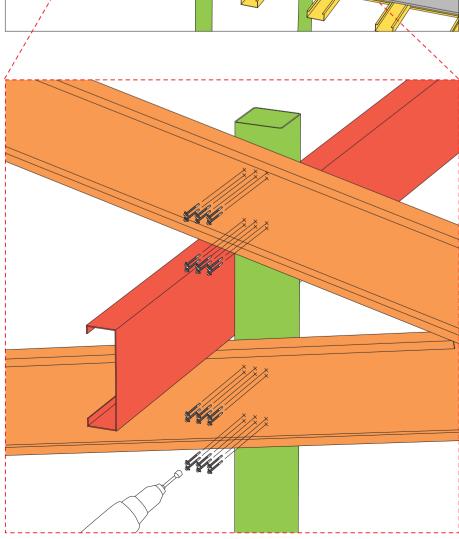




Lift Y's onto the scaffold and clamp in place.



Using 12 screws, fix each Y to the post using the method shown.



Part 1 Complete Ready for the Roof!

