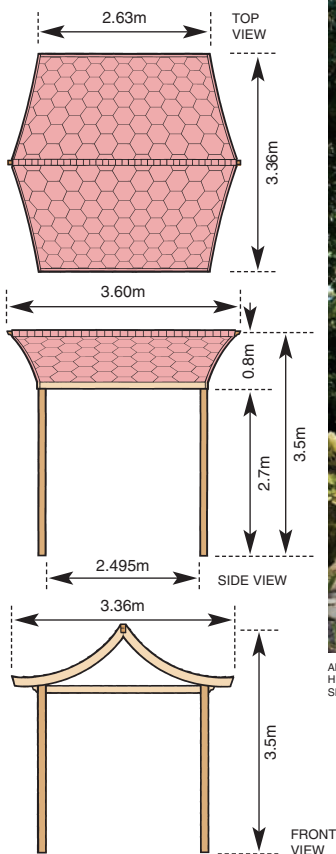


TEA HOUSE PERGOLA

ASSEMBLY INSTRUCTIONS

PLAN



TEA HOUSE PERGOLA (TEAHUS)

ALL PRODUCTS ARE MEASURED TO THE HIGHEST AND WIDEST POINT AND ALL SIZES ARE APPROXIMATE



Grange Code: TEAHUS



Grange

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JULY 2011 - ISSUE 2

Thank you for choosing this garden structure from Grange Fencing Ltd. In order to gain the most benefit from it please read the following instructions carefully.

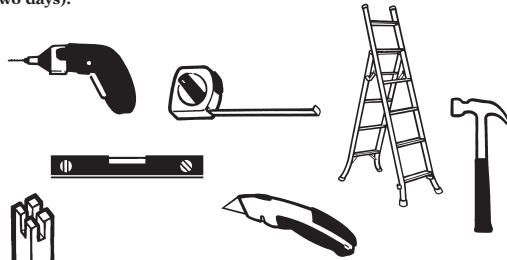
PLEASE READ THE ASSEMBLY INSTRUCTIONS THOROUGHLY BEFORE ATTEMPTING TO ERECT THE STRUCTURE. THE STRUCTURE IS FOR THE MORE ADVANCED DIY PERSON. ESTIMATED BUILD TIME - 10-12 HOURS (over two days).

TOOLS REQUIRED (Not Supplied)

POWER DRILL
(+ crosshead screwdriver bit)

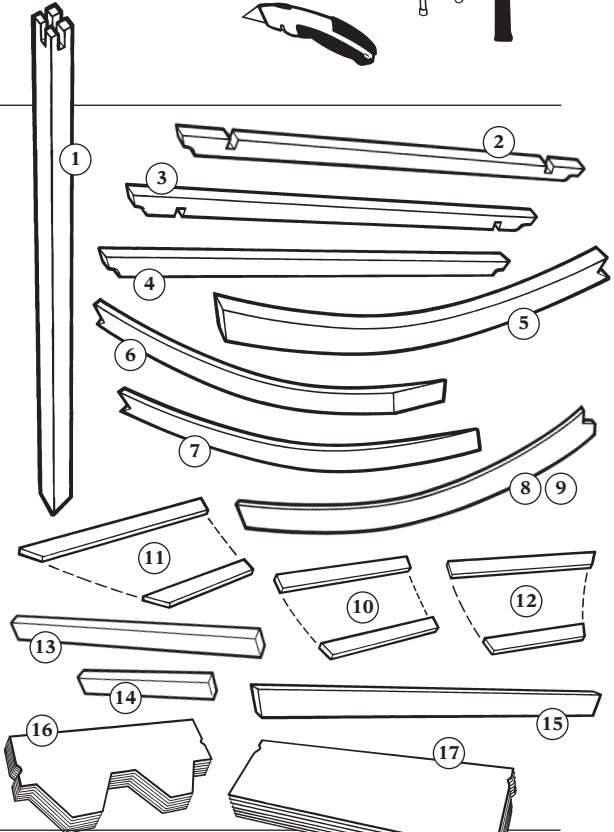
SPIRIT LEVEL
TAPE MEASURE
STEPLADDER
SCISSORS OR STANLEY KNIFE
HAMMER

METCRETE (for 4 posts)



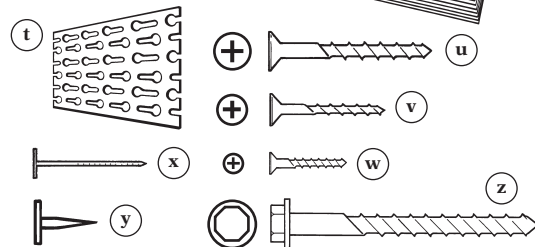
PARTS LIST

①	TIMBER POSTS	4
②	RAFTER (LOWER)	2
③	RAFTER (UPPER)	2
④	APEX RAFTER	1
⑤	CURVED BEAM	8
⑥	CURVED SUPPORT BEAM (LEFT HAND)	2
⑦	CURVED SUPPORT BEAM (RIGHT HAND)	2
⑧	CURVED FASCIA BEAM (LEFT HAND)	2
⑨	CURVED FASCIA BEAM (RIGHT HAND)	2
⑩	ROOF CENTRE SLATS (2 SETS)	2x 16
⑪	ROOF END SLATS (LEFT HAND SIDE - 2 SETS)	2x 16
⑫	ROOF END SLATS (RIGHT HAND SIDE - 2 SETS)	2x 16
⑬	CENTRE SUPPORT SLATS	6
⑭	END SUPPORT SLATS	4
⑮	SOFFIT BOARDS	2
⑯	SHINGLES PACKS	4
⑰	EAVES SHINGLES PACK	1



HARDWARE PACK

t	NAIL PLATE	8
u	SCREWS - 10 x 3"	8
v	SCREWS - 8 x 2"	32
w	SCREWS - 6 x 1.5"	16
x	NAILS	500
y	CLOUT NAILS	300
z	SCREWS - 8 x 100 (TURBO COACH SCREWS)	8



BEFORE YOU START

- Please ensure that you check all the component parts for quantity and quality before you commence building the product. Report any missing parts immediately. The manufacturer will not accept any responsibility for damaged items once any part of the product has been fitted or altered in any way.
- Timber is a natural material and will react to varying levels of moisture content - ie. will swell or shrink. All of the Timber components are pressure treated green. However, should extra protection be required, they should be treated using a wood preservative treatment, following the manufacturers maintenance instructions.

HEALTH AND SAFETY

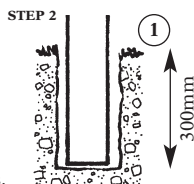
- Do not overstretch when working from the step ladder.
- Take care and follow the instructions when cutting the shingles.
- No work should be carried out on the roof without the use of a board to distribute the load.
- In order to reduce the risk of suffocation please keep all plastic bags and small parts away from children.
- When you are ready to start, make sure you have the right tools to hand, plenty of space and a clean, dry area for assembly.

Two people are required to carry out the work.

PREPARATION

Make sure the area where the Tea House is to be erected is clear and level for building the structure.

We would recommend that you use **MetCrete**, fast set post fixing concrete to fix your posts. Easy to use, it sets in just 10 minutes.



ASSEMBLY INSTRUCTIONS

STEP 1

Using the 'footprint' provided mark out the area where the Tea House will be erected. Prepare holes for the posts allowing for the concrete. Each post should be at least 300mm deep.

NB. The Tea House should only be erected with the posts concreted into the ground.

STEP 2

Take two Posts (1) and a Rafter (2). Position the posts into two of the holes and fix the rafter into the top of the posts using the screws (u).

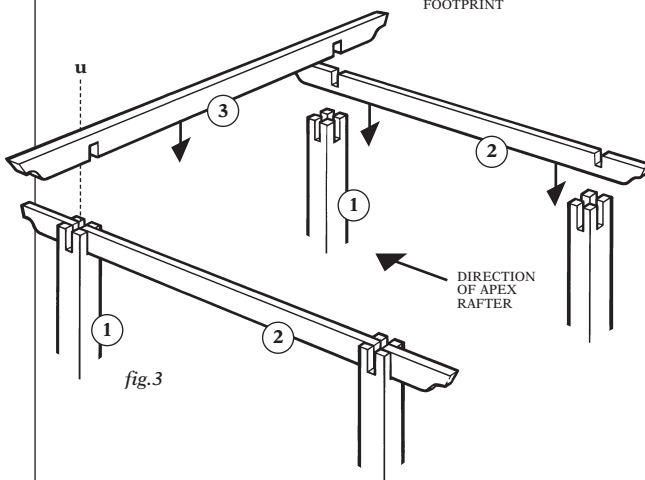
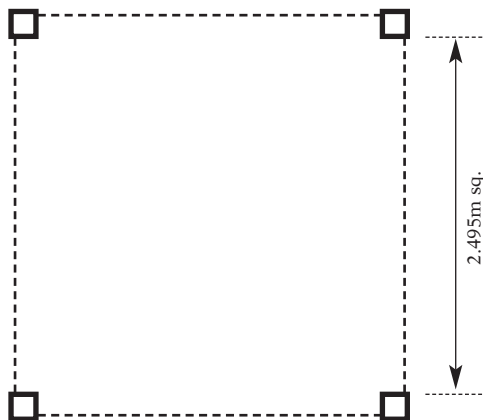
NB. It is preferable for Rafter (2) to be in the same direction as the Apex Rafter (4)

STEP 3

Take the remaining posts and Rafters (2) and assemble in the same manner in the opposing two holes.

STEP 4

Fix one of the Rafters (3) into the top of each of the two assemblies to tie the two together (as fig.3).



STEP 5

Fix the other Rafters (3) to complete the square.

STEP 6

Check the assembly is upright, level and square. Once this has been achieved concrete the posts in place.

ALLOW THE CONCRETE TO SET SOLIDLY BEFORE CONTINUING.

STEP 7

Take two of the Curved Beams (5). Lay them on a solid flat surface with the two flats at the profiled end pushed together (as fig.4).

Using one of the Nail Plates (t) fasten the two together.

Carefully turn them over and fit another nail plate to this side.

STEP 8

Repeat Step 7 for the remaining three pairs of curved beams.

STEP 9

Determine the position of the two intermediate curved beams along Rafters (2) (as fig.5). Mark the positions.

STEP 10

Take the Apex Rafter (4) and mark the position for the curved beams. Measure from the centre.

STEP 11

Position one of the curved beam assemblies across one of the Rafters (3) (as fig.6).

STEP 12

Locate the Apex Rafter (4) into the cutout at the top of the curved beam assembly.

STEP 13

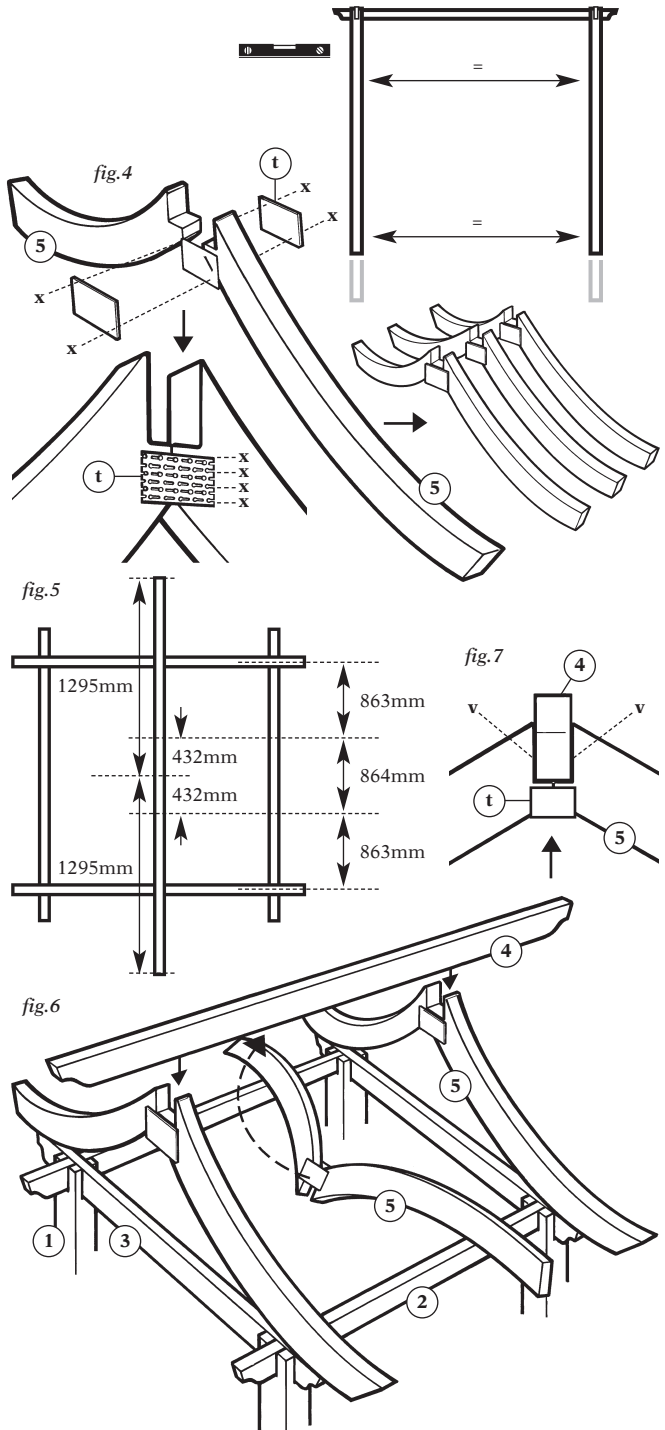
Position one of the curved beam assemblies at the opposing end of the Apex Rafter (4) lifting it into position on the other Rafter (3).

STEP 14

Position the two remaining curved beam assemblies. Lift them into place in the upside down position and rest them on the rafters. Rotate each one into position at the marked places.

STEP 15

Check all of the beams are positioned correctly. Using screws (v) fix each of the curved beam assemblies to the apex rafter on both sides (as fig.7).



STEP 24

Repeat Step 23 for the remaining three sets of slats.

DO NOT CARRY OUT ANY WORK ON THE ROOF WITHOUT THE USE OF A BOARD TO DISTRIBUTE THE LOAD.

STEP 25

The slats that butt up to the apex rafter require support. Six long slats plus four shorter ones are supplied for this purpose. Push one of the slats up under the top slat previously fixed in the centre and nail it to the apex rafter.

STEP 26

Repeat step 25 for the other nine sections.

STEP 27

The structure is now ready for the shingles to be fitted. Begin at the bottom and work up to the apex.

NB. It is recommended that a 'dry run' of two levels is laid to ensure that the correct method and appearance will be achieved.

STEP 28

Determine the centre of the eaves of the roof and mark the position. Take one of the eave shingles and align the centre with the centre marked on the roof. An overhang of 30mm should be allowed at the edge of the roof.

Remember to peel off the protective plastic on the back of the shingle before fixing in place with Clout Nails (y), one at either end.

STEP 29

Lay another eave shingle next to it in the same way, to the end of the roof. Trim the shingle to follow the edge of the roof allowing 30mm overlap. Cut the shingle and form the corner (as shown in fig.10).

STEP 30

Repeat step 29 at the other end.

STEP 31

Take one of the shaped shingles and position it so that the end of it aligns with the centre of the eave shingle fixed to the roof. The shaped end should be approximately 10mm from the edge of the roof.

STEP 32

Complete the row, fixing the shingles in the same way as step 21. Trim the shingles at the end of the roof leaving an overlap of 30mm

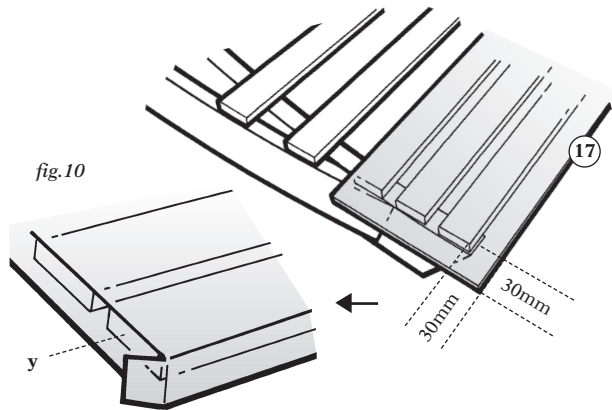
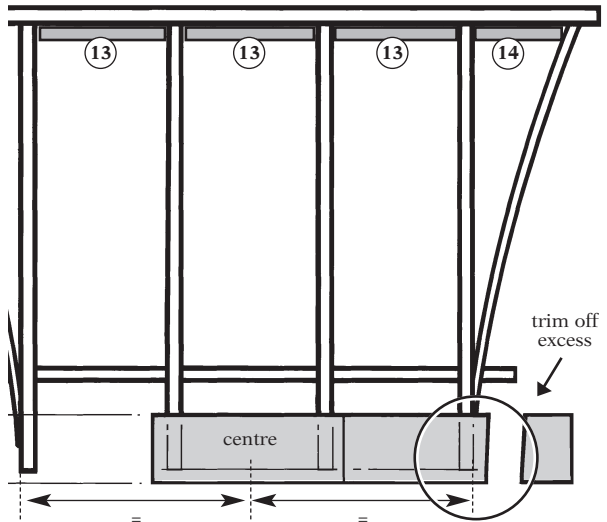
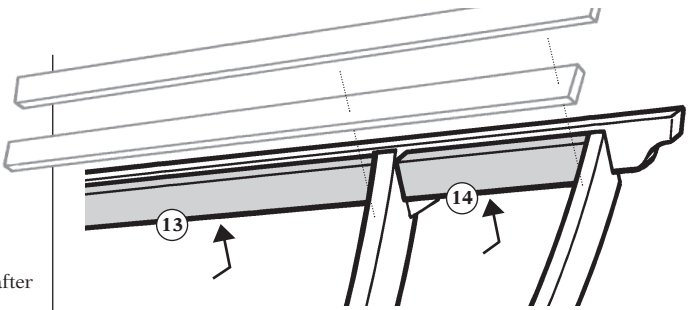
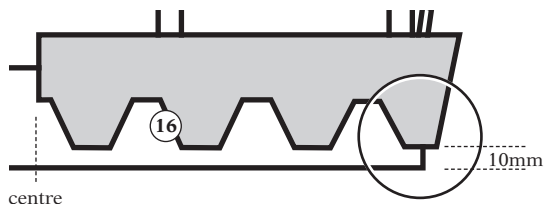
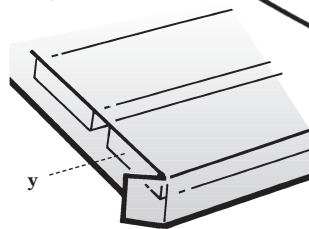


fig.10



centre

STEP 33

Bend the shingles over at the end of the roof and using Clout Nails (y) fix in place.

STEP 34

Repeat steps 31, 32 and 33 to complete this side of the roof. The last row should cover the top of the apex rafter.

DO NOT WORK ON THE ROOF WITHOUT A BOARD TO DISTRIBUTE THE LOAD.

STEP 35

Shingle the other side of the roof following the same procedure. The last row of shingles should cover the top of the apex rafter.

STEP 36

Take one of the eave shingles and split it into three sections. The shingles are scored at the correct places to enable this to be easily done.

STEP 37

The split shingles are used to complete the apex of the roof.

Starting at one end of the apex rafter, fix one of the shingles in position to align with the edge of the fixed shingles and equally spaced either side of the apex.

Use two Clout Nails (y) to fix it in place on the side where the next shingle will cover them. Remember to remove the protective plastic from the back of the shingle.

STEP 38

Continue to fix the shingles until the apex is completed. The last shingle should be cut to remove the same amount that has been covered on those previously fitted.

NO NAILS SHOULD BE PUT IN THE FINAL SHINGLE. It may be necessary to glue this if the bitumen doesn't fix it (glue not supplied).

STEP 39

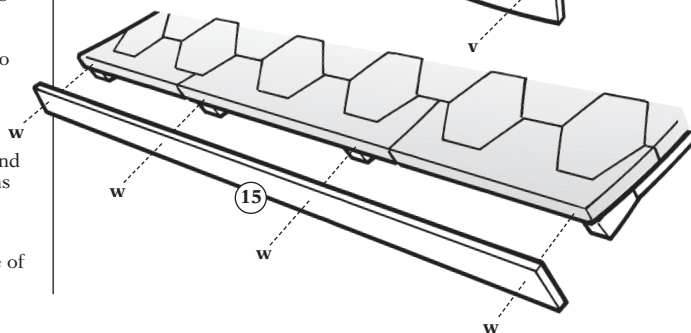
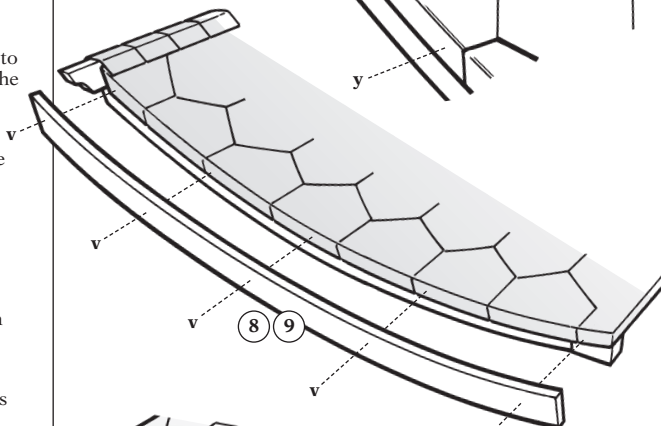
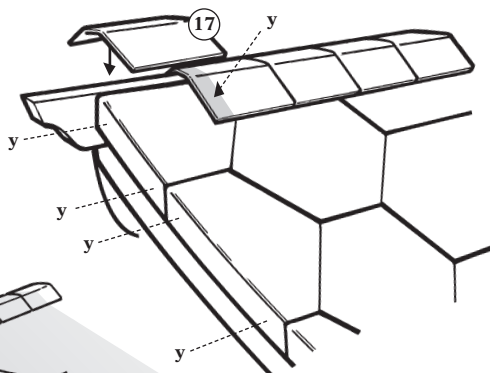
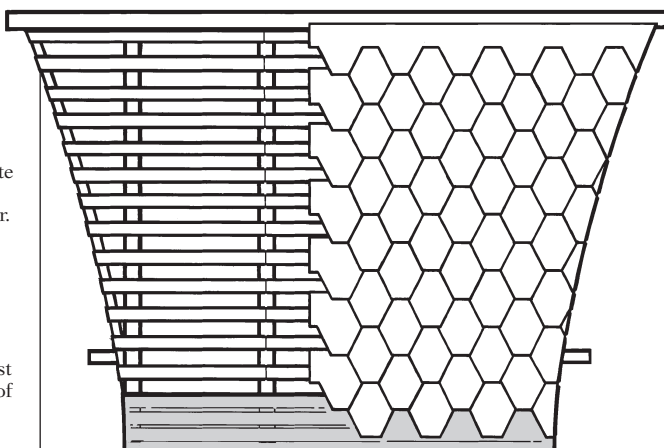
Using screws (v) fit the fascia boards to the ends of the roof. The fascias should hide the shingles overlapped from the roof. It may be necessary to trim the shingles at the end of the apex rafter.

STEP 40

Take one of the Soffit Boards (15) and fix it to the ends of the curved beams of the roof using screws (w).

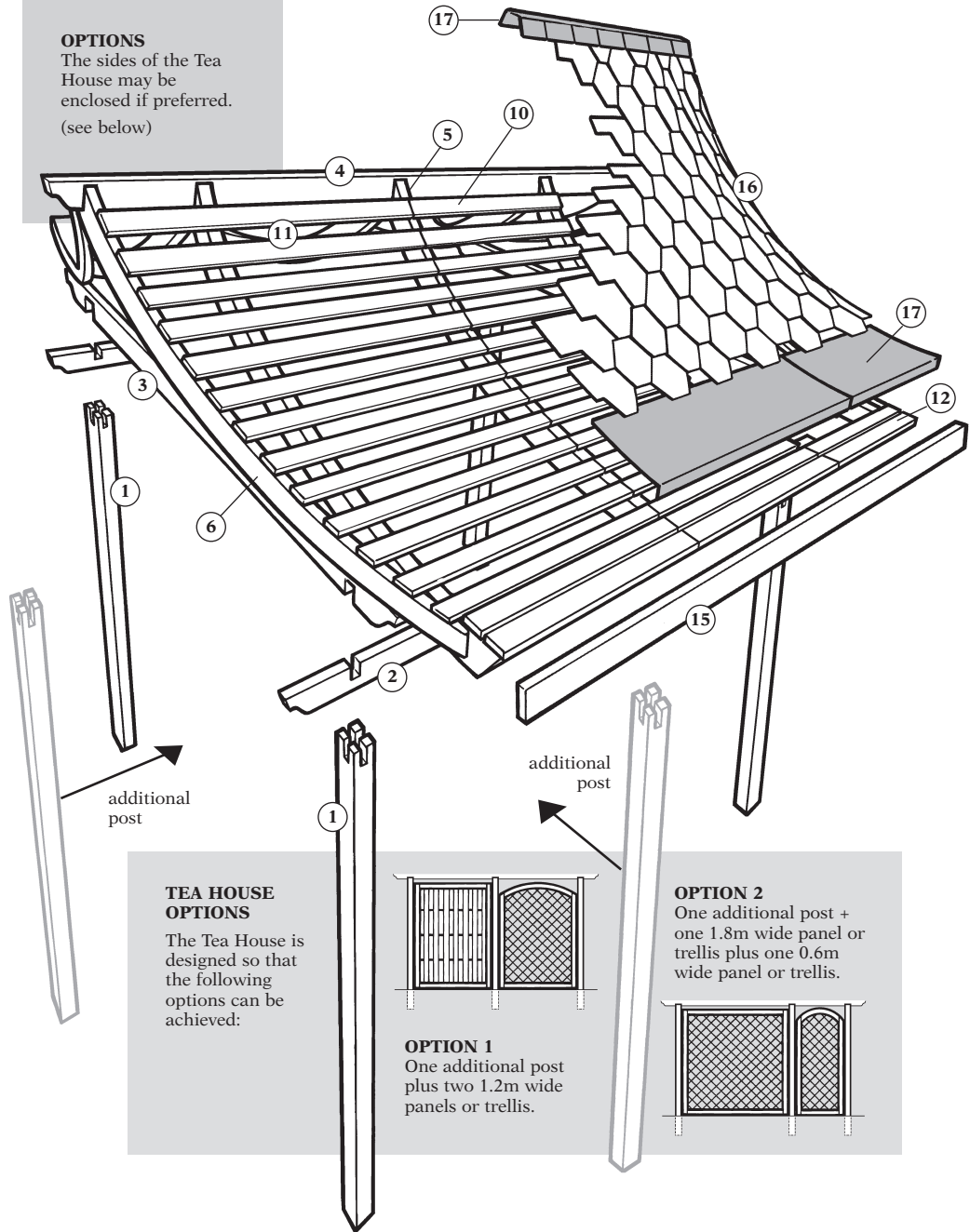
STEP 41

Fix the soffit board to the other side of the roof to complete the build.



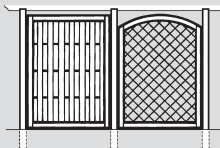
OPTIONS

The sides of the Tea House may be enclosed if preferred. (see below)



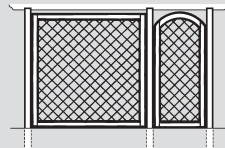
TEA HOUSE OPTIONS

The Tea House is designed so that the following options can be achieved:



OPTION 1
One additional post plus two 1.2m wide panels or trellis.

OPTION 2
One additional post + one 1.8m wide panel or trellis plus one 0.6m wide panel or trellis.



AFTERCARE

To ensure longevity of your structure it is recommended that it is treated with a wood preservative on a yearly basis.