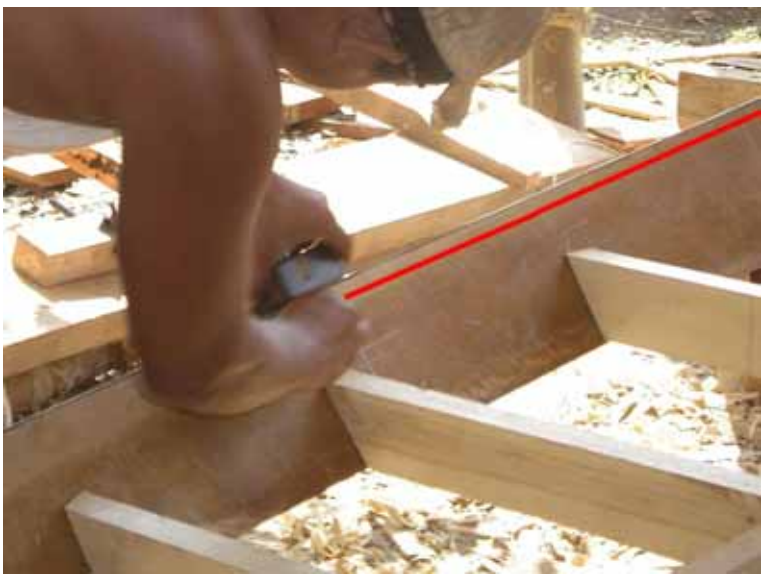
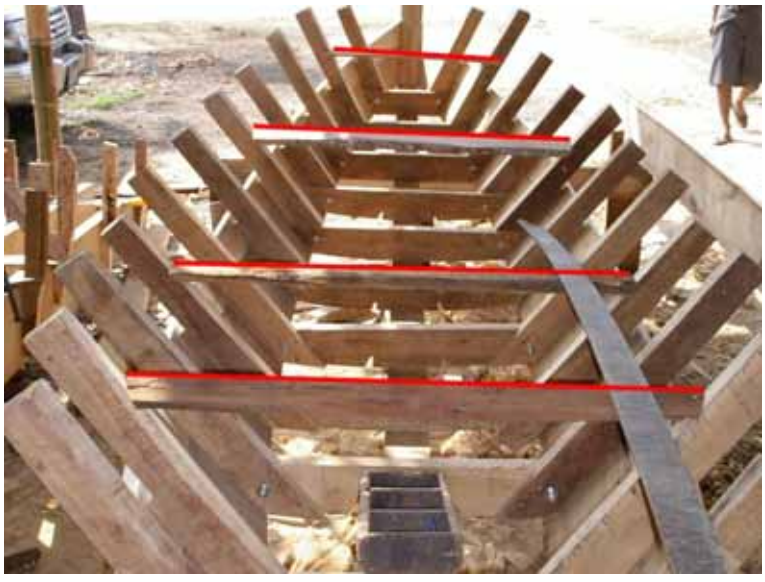
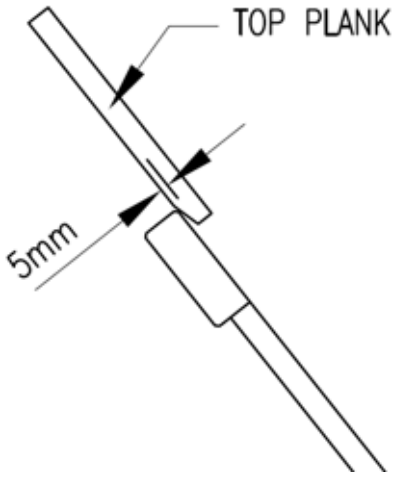
19	**12 ft & 18 ft** **<u>Fit remaining floors</u>** The remaining floors can now be cut to size by taking measurements at the boat. The timber required is given in step 1. See step 10, 11 and 20 for installation procedures. Note: The floors in the forward part of the boat are fitted in front of the marked line and those in the aft part, behind the marked line.	
20	**12 ft & 18 ft** **<u>Bevel floor ends</u>** The ends of the floors should be bevelled to suit the curve in the plank.	
21	**12 ft** **<u>Mark plank overlap</u>** Carefully mark a line 19 mm below the top edge of the plank. This line is to give the overlap between the lower and upper side planks.	

22	**12 ft & 18 ft** **<u>Prepare frames</u>** Cut lengths of timber to make the frames. **12 ft –** The timber required is: 50 mm x 38 mm x 350 mm. **18 ft –** The timber required is: 62 mm x 38 mm x 600 mm.	
23	**12 ft & 18 ft** **<u>Frame details</u>** The frames have a notch cut to suit the upper side plank. The notch is the depth of the thickness of the top plank and extends to the marked line for the plank overlap (see step 21).	
24	**12 ft** **<u>Fit frames</u>** Fit the frames aligning the notch with the line marked on the plank. Frames are slightly over length & will be cut later (see step 48). The fastenings required are: 50 mm nails. Pre-drill the nail holes (see step D in section 6.1). Note: A temporary keelson may be fitted at this stage to ensure that the structure remains rigid & straight.	

25	**12 ft & 18 ft** **<u>Frame details</u>** Note the following frame details: 1) The frames are not bevelled but fitted aligned with the planking. 2) The frames are halved where they lap the floors. 3) The frames in the forward part of the boat are fitted in front of the floors and those in the aft part behind the floors.	
26	**18 ft** **<u>Fit frames</u>** The fastenings required for the frame to floor joint are: 1 mm x 75 mm x 8 mm bolt **or** 2 mm x 50 mm nails. Pre-drill the nail holes (see step D in section 6.1). Note: Where bolts are used, it is recommended that nails are used as temporary fastenings when assembling the frames.	
27	**12 ft & 18 ft** **<u>Framing complete</u>** Note: Temporary transverses should be fitted at this stage, to ensure structure remains rigid & straight.	

28	**18 ft** **<u>Cut bilge stringer</u>** Offer up the timber for the bilge stringer, and mark and cut the correct angle at the stem. The timber required is: 90 mm x 32 mm x 5 490 mm.	
29	**18 ft** **<u>Install bilge stringer</u>** Starting at the stem fit the bilge stringer. The fastenings required are: 2 mm x 50 mm nails for each plank. Pre-drill the nail holes (see step D in section 6.1).	
30	**18 ft** **<u>Install bilge stringer</u>** Working back from the stem and making use of a clamp where required, continue fastening the stringer to the frames. When complete, the lower plank and stringer should be edge-fastened (see section 6.1). The plank overlap should be marked on the top edge of the stringer (see step 21). See step 21 for marking edge of stringer.	

31	**12 ft & 18 ft** **Mark & cut out stern cover boards** The cover boards are designed to suit local preferences. The timber required is the same thickness as the hull planking.	
32	**12 ft & 18 ft** **Mark & cut out bow cover boards** The cover boards are designed to suit local preferences. The timber required is the same thickness as the hull planking.	
33	**12 ft & 18 ft** **Fit bow & stern cover boards** Fasten the cover boards to the stem (or transom) and edge-fasten to the upper edge of the lower plank (or stringer.) For edge fastening and pre-drilling, see section 6.1. Note: The inside face of the cover boards should be flush with the lower side plank (or stringer.)	

34	**12 ft & 18 ft** **<u>Prepare upper side planks</u>** Cut a pair of planks to the same size and shape to ensure symmetry of the boat. This is done by clamping the planks together when working. The lower, outer edge of these planks is planed off by about 1/3 of the thickness (see illustration). **12 ft –** The timber required is: 160 mm x 16 mm x 4 150 mm. **18 ft –** The timber required is: 200 mm x 19 mm x 5 820 mm. Note: The length of the planks is determined at the boat. Also, the aft end of the plank is left over long and will be cut later (see step 47). The additional length should be about 150 mm, to suit local preferences.	 
35	**12 ft & 18 ft** **<u>Fit upper side planks</u>** The upper side planks are bent into place; several pair of hands will be required for this step. Note: These planks do not touch the stem or transom (see step 37).	

36	**12 ft & 18 ft** **<u>Fit upper side planks</u>** Note how the plank fits inside the lower plank (or stringer) into the notches in the frames. A clamp may be required to assist in this process. The fastenings required are: 2 mm x 50 mm nails for each frame. Pre-drill the nail holes (see step D in section 6.1).	
37	**12 ft & 18 ft** **<u>Upper side plank ends</u>** The upper side planks fit inside the bow and stern cover boards. Note: The upper side planks are cut in order not to touch the stem or transom. There is a 10 to 15 mm gap.	
38	**12 ft & 18 ft** **<u>Turn boat over</u>** Turn the boat over on the built frames.