

VANGUARD MODELS

BY CHRIS WATTON

****32ft Pinnacle****

Recommended tools:

1. Sharp knife such as a scalpel, X-acto or Stanley.
2. Sanding sticks or abrasive papers (110 – 320 grade)
3. Steel rule
4. Needle/jeweller's files
5. Small clamps
6. Small tweezers
7. Masking tape (Tesa, Tamiya etc.)
8. Fine paintbrushes
9. Titebond I/II wood glue
10. Gorilla Glue CA gel

Recommended Paints etc.

1. Plastikote matt white spray
2. Plastikote matt black spray
3. Vallejo black and brown acrylics
4. Mr Metal Colour aluminium paint
5. Ronseal Matt Polyurethane varnish

1.

Glue the bow planking patterns P15 (x2) from the 1mm pear wood sheet, to bulkhead P1 from the 2mm MDF sheet.

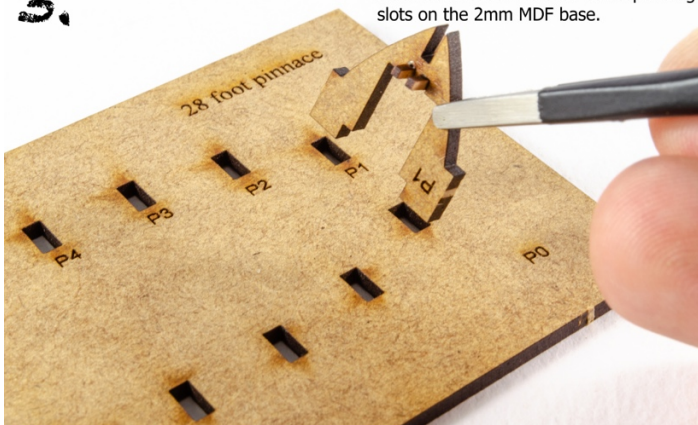
2.



When both P15 are fitted, the assembly will look like this.

3.

Fit all bulkheads into their corresponding slots on the 2mm MDF base.

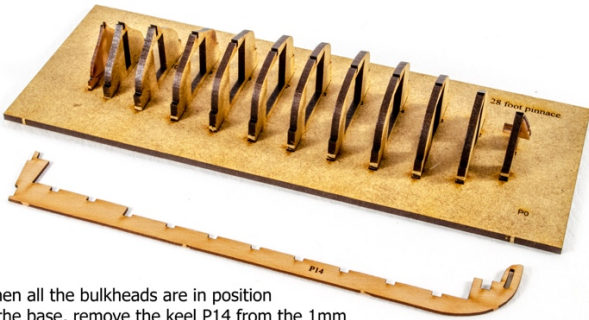


4.



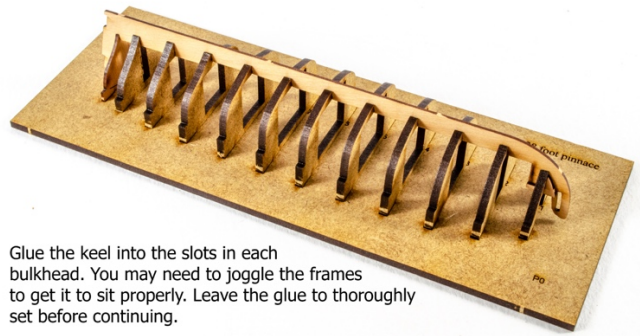
Remove P12 from the 1mm pear wood sheet and sit in its slot in the base. Again, do NOT glue.

5.



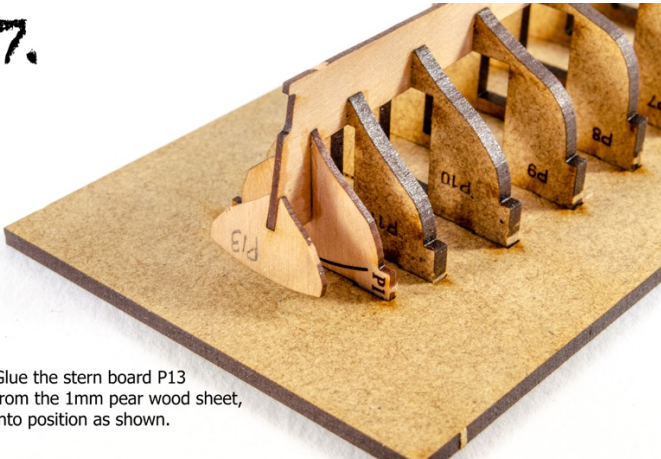
When all the bulkheads are in position in the base, remove the keel P14 from the 1mm pear wood sheet.

6.



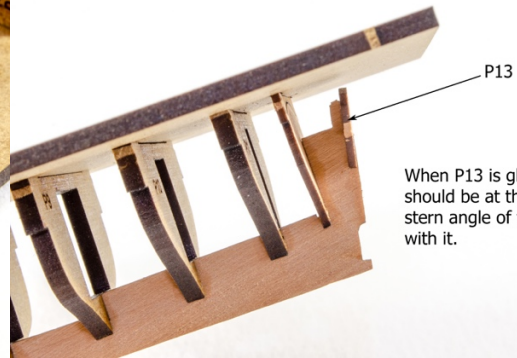
Glue the keel into the slots in each bulkhead. You may need to joggle the frames to get it to sit properly. Leave the glue to thoroughly set before continuing.

7.



Glue the stern board P13 from the 1mm pear wood sheet, into position as shown.

8.



When P13 is glued in position, it should be at the same angle as the stern angle of the keel, and flush with it.

9.

Use sand paper or sanding sticks to sand/fair the bulkheads so that a plank will lie across them with maximum contact.

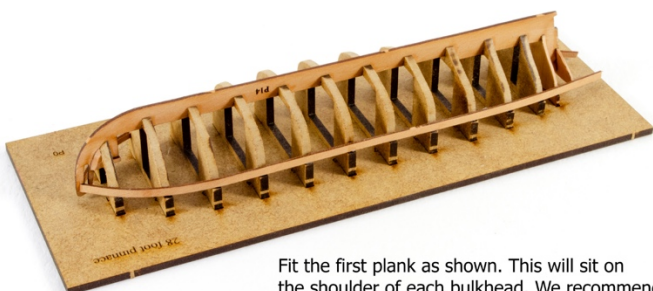


10.

If you want to bend the first 0.6mm hull planks (P30), you can soak them, but make sure they are thoroughly dry before fitting them.

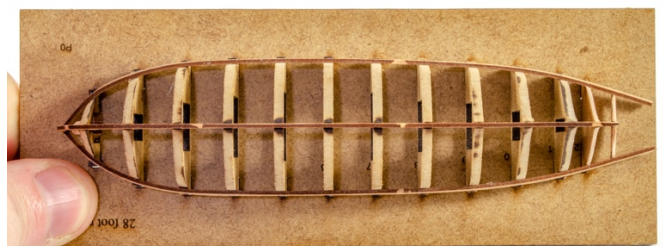


11.



Fit the first plank as shown. This will sit on the shoulder of each bulkhead. We recommend using wood glue for planking, instead of CA.

12.



If you have faired the bulkheads correctly, your planks will lay across the bulkheads with maximum contact on each one.

13.



As you continue to plank, you will need to taper each one. The pencil marks here show where I tapered mine from. You will also need at some point, to taper downwards from the keel. Don't worry about using stealer planks to fill gaps.

14.



Trim back the shoulders of the MDF bulkheads as that will make it easier to sand the hull to shape.

Sand the hull using 120 grade paper, finishing it with a finer grade to allow for a good paint finish.

15. 16.



When sanding the hull and achieving a good finish, you may need to use some filler. We recommend a good acrylic filler that you can dilute with water.

17.



Remove the hull from the base. The base can now be discarded.

18.



Use pliers to twist the MDF bulkheads to remove them. The lower section will remain in place.

19.



Sand the inside of the hull smooth and remove any glue remnants. Remove the rib strips (P31) from the 0.6mm pear wood sheet, and fit as seen here. Space them around 5 - 6mm apart.

20.



On the forward ribs, make a pencil mark 3mm down from the top bulwark edge. Cut the seat support strips (P32) from the 0.6mm pear wood sheet, and glue into position below the pencil marks, as seen here.

21.



OPTIONAL: To create a wood finish to the PE floor sections, you can first apply a coat of Tamiya XF-59 Desert Yellow.



On top of the paint, you can now apply a very thin coat of Raw Sienna oil paint, using a piece of foam.



Spots of Raw Umber oil paint can now be randomly applied to the previous oil paint covering.



Using your foam sponge, drag the dark oil paint spots into the lighter layer below. Keep doing this until you achieve the desired result.

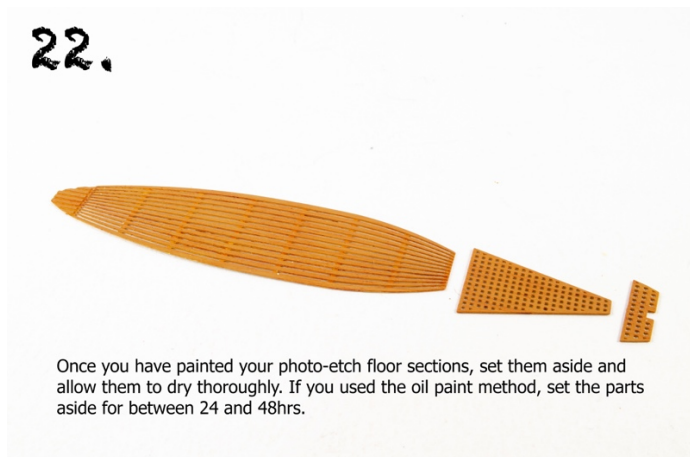


You can make your wood effect as subtle or coarse as you wish.



A fan brush could also be used to create knot effects and a more natural flow to the grain.

22.



Once you have painted your photo-etch floor sections, set them aside and allow them to dry thoroughly. If you used the oil paint method, set the parts aside for between 24 and 48hrs.

23.



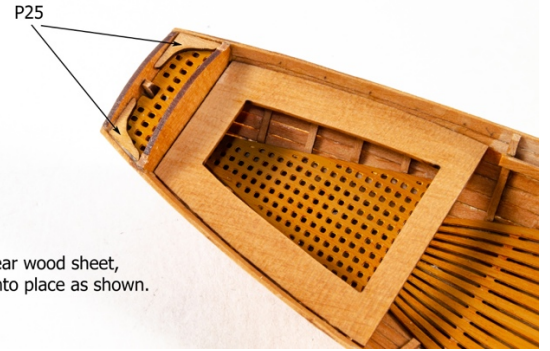
Glue the floor sections into place within the hull as shown. We recommend using CA for this.

24.



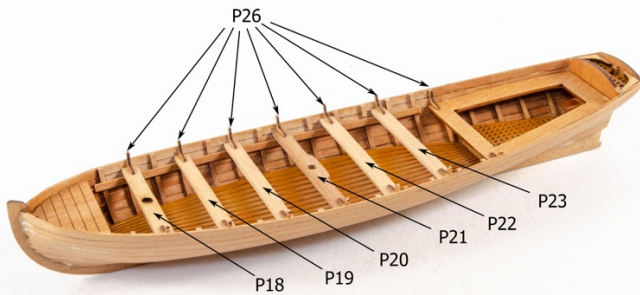
From the 1mm pear wood sheet, glue parts P16 and P24 into place as shown.

25.



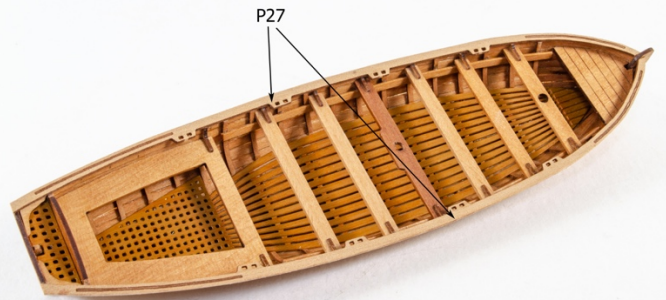
From the 1mm pear wood sheet, glue pieces P25 into place as shown.

26.



The seating can now be fitted, from the 1mm pear wood sheet. These are supplied slightly longer than needed so you can trim them exactly to your model. When fitted, add the knees (P26) from the 0.6mm pear wood sheet.

27.



Glue the gunwales into position (P27) from the 0.6mm pear wood sheet. The engravings on these must face upwards.

28.



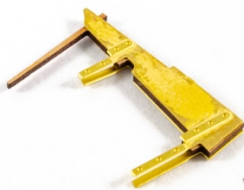
Now fit the Fore and Aft boards into place (P28 and P29) from the 0.6mm pear wood sheet. These sit directly over the gunwale engravings.

29.



Cut the rudder from the 1mm pear wood sheet and also remove the rudder side patterns from the photo-etch sheet.

30.



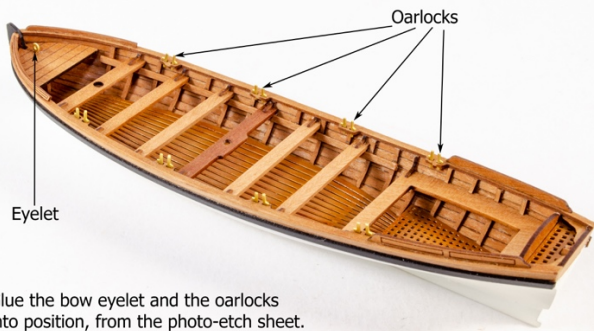
We recommend using CA gel to glue the PE parts to the wooden rudder as it gives time to allow for positioning.

31.



Paint the hull white and the wales (from planking strips) in black. Glue the wales into position as shown. The wales will simply follow the path of the second plank down, on each side.

32.



Glue the bow eyelet and the oarlocks into position, from the photo-etch sheet.

33.



Glue the anchor parts together as shown, using CA. You can either paint these black or use a blackening solution to colour them.

34.



You are given the choice of using either photo-etch or wooden oars. If you use the wooden ones, sand the paddle to shape and slightly round the handle. To paint, we chose white for the handle with a varnished paddle. The paddle tip is painted in copper.

35.



Glue the rudder into position. We recommend CA for this.

36.

Complete!



We suggest you fit the oars as we have here. You can stow the anchors at the back of the boat and for the boat hooks, we've sat them as shown towards the front. Paint the handles in brown and the hooks in a metallic colour.



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Prototype Model built by James Hatch. Actual product may vary slightly.