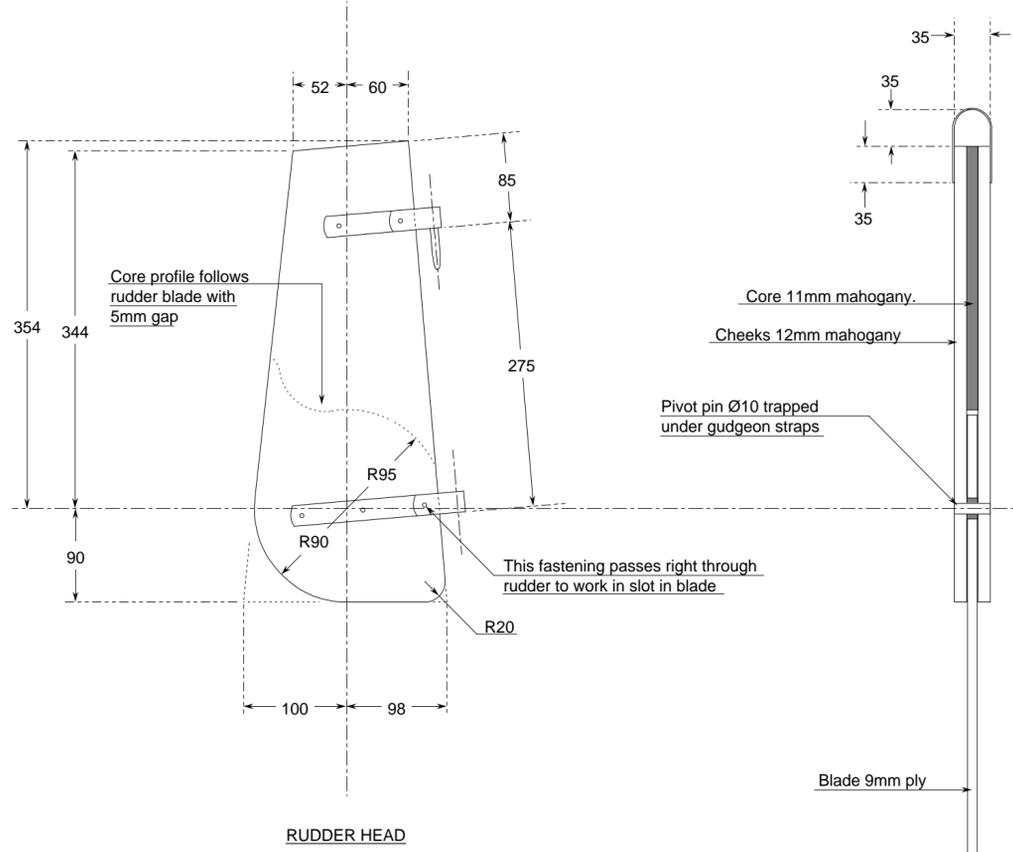


Rudder head made from 1.5mm brass riveted to rudder

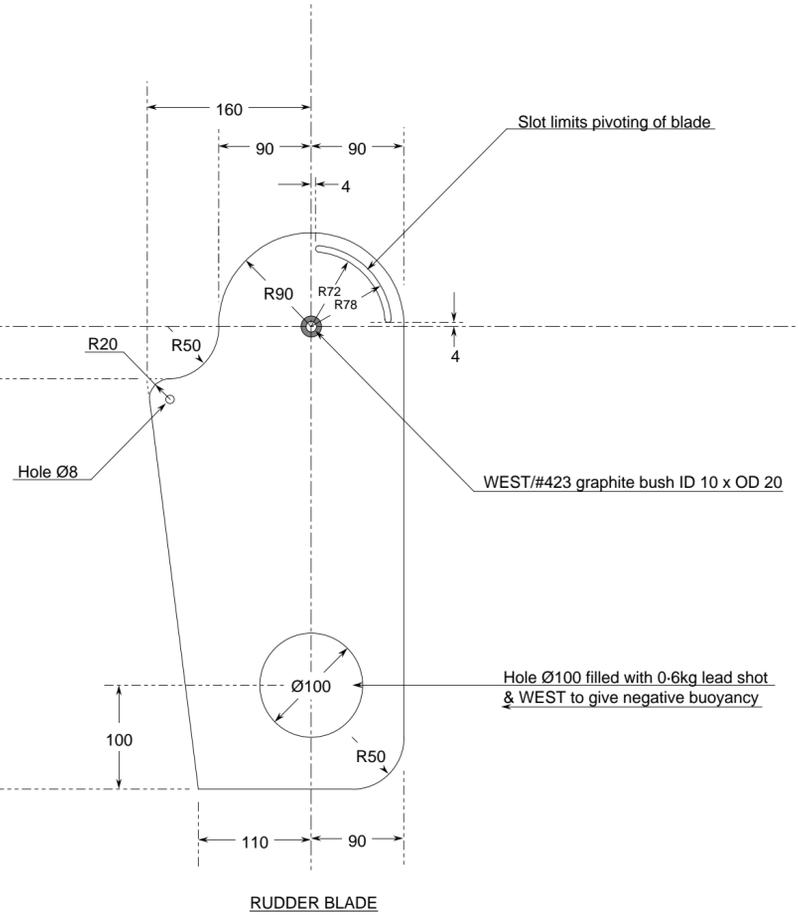
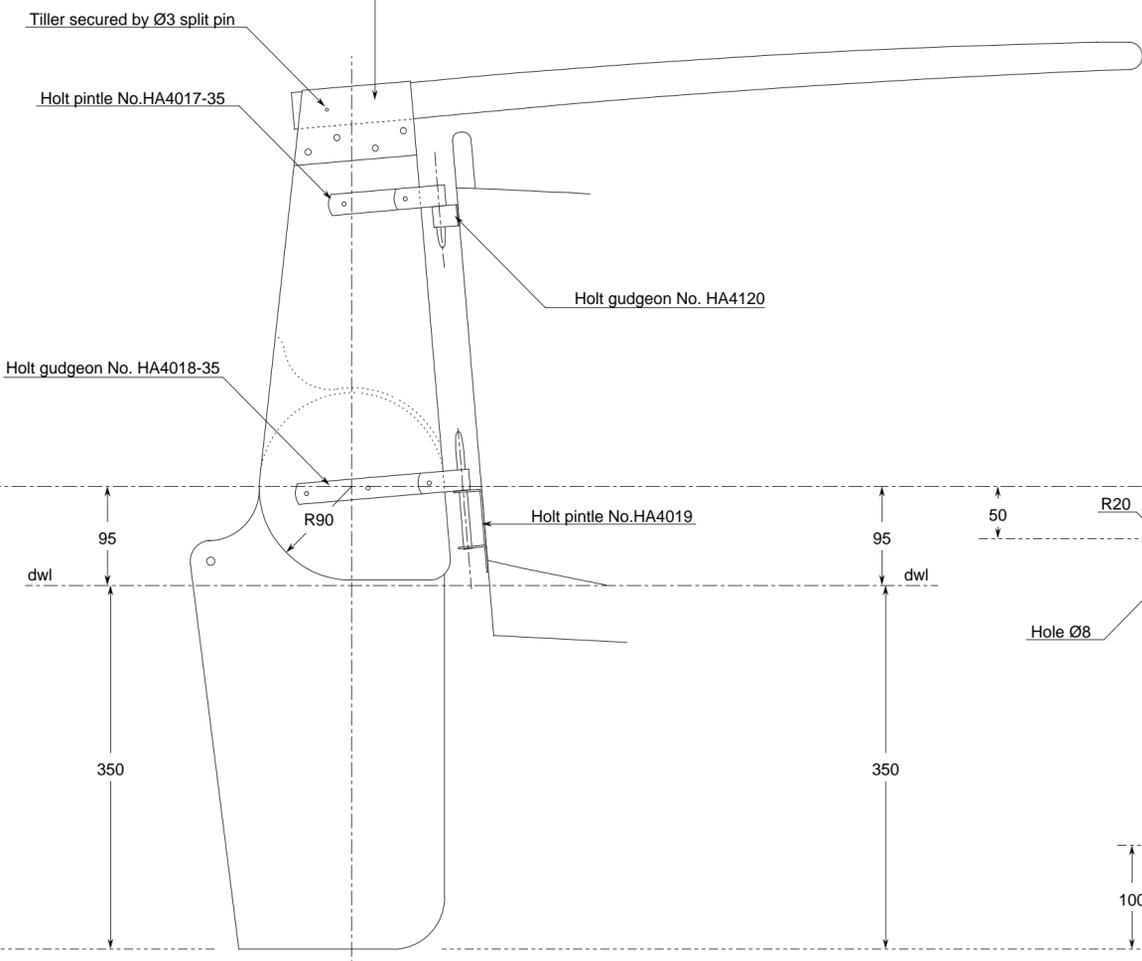
Notes:

1. All dimensions in millimetres unless otherwise noted.
2. Rudder body is made with 11mm mahogany core (profiled to match top of rudder blade, but with a 5mm gap) and 12mm mahogany cheeks.
3. Rudder blade is 9mm - 10mm plywood with about 0.6kg lead shot in resin to give negative buoyancy.
4. Adjust core thickness to suit actual blade thickness, making allowance for coatings.
5. Gudgeons and pintles are Jack Holt manufacture for 35mm thick rudder.
6. The aft two fastenings of the lower rudder pintle are 0.5" x 8g c/sunk screws into the rudder cheeks; fwd fastening is 4mm rivet (or M4 bolt), passing right through rudder and working in slot in blade.
7. Rudder pivot pin is 10mm Ø (brass or stainless), held in place by lower pintle straps. Pin is static.
8. Pivot bush in blade is cast from WEST/#423 graphite powder. Alternatively a brass or "Tufnol" bush can be machined. Bush is 10.5mm long to fit freely between cheeks.
9. Rudder is preferably WEST bonded together and rudder and blade WEST coated 3 coats.
10. Rudder head fitting is 1.5mm brass sheet riveted to rudder.
11. Tiller is oak or similar, shaped to be a close fit into rudder head fitting. It is best to glue a very shallow wedge on top of rudder body and taper heel of tiller so that tiller can be withdrawn from fitting easily. Tiller is secured in position by 3mm split pin.
12. Rudder blade is lifted by Ø5mm rope (from hole in top of blade) through Holt tubular jam cleat No. HA4146 screwed to side of rudder body, near top. Check upper gudgeon on transom with regard to outboard bracket - should sit inside standard "Seagull" bracket OK.



Core profile follows rudder blade with 5mm gap
Core 11mm mahogany
Cheeks 12mm mahogany
Pivot pin Ø10 trapped under gudgeon straps

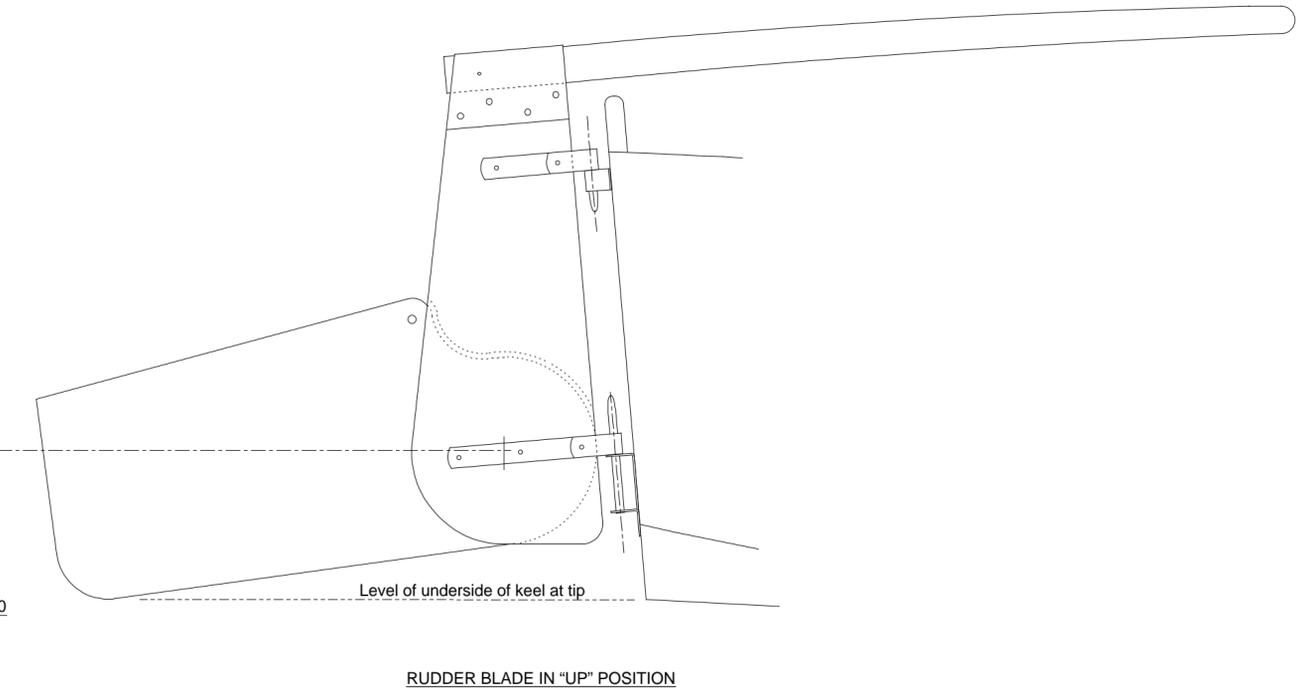
This fastening passes right through rudder to work in slot in blade



Slot limits pivoting of blade

WEST/#423 graphite bush ID 10 x OD 20

Hole Ø100 filled with 0.6kg lead shot & WEST to give negative buoyancy



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	Date 10/05/1993
	Plan No. 038/006/03
	Issue No. 01 web
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