

Co-ordinates of centres of centreboard rollers and pins:

Pivot pin	x = -2750	y = -530
Stop pin	x = -2980	y = -287
Roller 'A'	x = -3040	x = -245
Roller 'B'	x = -3555	x = -180
Roller 'C'	x = -3720	x = +400

x = measurement from Zero Point.
y = measurement about DWL

See Detail Plan for details of rollers and pins

Notes:


- Centreboard slot in backbone will be 40mm longer each end to allow for end posts and also 12mm wider each side to allow for centreboard sides. Slot size will be therefore 1160 x 74. In practice, allow slot width to be minimum 76 to take up WEST coating etc. on ply sides and retain 50mm inside measurement of case.
- Ensure case sides are well WESTed to sides of slot in backbone and that WEST is not pushed out when sides are slid in.
- Keel bolts are stainless steel studs (25mm thread at bottom and 40mm thread at top) Grade 316 S16. Fit with 35 x 35 x 3 square washer plates under M12 full nuts on inside face of backbone. Holes in backbone for studs can be bored approx 16mm Ø to facilitate entry of studs. Pour WEST/silica around studs in holes to take up space. Wax studs so that WEST does not adhere.
- Bed ballast keel on WEST/silica mix; wax top of ballast keel so that it does not adhere.
- Deadwoods can be built up from convenient thickness timber (say 50mm) and WEST bonded together. No through fastenings are required but each succeeding layer can be screwed to previous one to assist assembly etc. Ensure that inside of slot is thoroughly WESTed (minimum 3 coats finished). Again slot can be made approx 2mm oversize to allow for thickness of WEST, so as to finish 50mm.
- Centreboard has 10mm Ø uphaul and downhaul ropes, laying side by side over the rollers etc.

Note - read this drawing in conjunction with the following other plans:

- Ballast Keel and Deadwoods - Offsets
- Centreboard & Centrecase Details
- Keel Sections
- Keel & Deadwood Bevel Pieces
- Main Cabin Sole

General Notes:

- All dimensions are in millimetres unless otherwise noted.
- The Zero Point is the intersection of the Datum Water Line (dwl) with the stemface.
- Positions are measured fwd and aft (marked "-") of the Zero Point.
- Heights are measured above and below (marked "+/-") the dwl.
- Offsets are measured each side of the fore-&-aft centreline (marked "±" or c/line).
- Waterlines are designated "wl" followed by their height.
- Buttocks are designated "b" followed by their offset.
- Diagonals are designated "d" followed by their start height on the centreline and their angle to it.
- Offsets on diagonals are measured down the angle of the diagonal.
- Offsets are to inside of skin unless noted otherwise.

 boats and boat plans	Scale	1/10
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Boat 012 Ballast Keel & Deadwoods	Plan No.	012/005/01
	Issue No.	01 web
	Drawing Size	895 x 305 - 35" x 12"
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