

Boat 038 - General Specification

Bedding	Garboard plank and hood ends bedded on mastic (polybutylene, polyurethane, polysulphide or similar if using modern materials - red lead and grease mixture if using traditional).
Bilge runners	Mahogany or oak. 20mm sided x 15mm moulded. Fitted following the bottom land of plank 4 for about the middle two-thirds of the vessel. Fitted with brass strip 12mm x 3mm or similar.
Coating system	<p>Coating may be traditional - a primer of varnish thinned with turps substitute, followed by five coats of marine varnish (Epifanes recommended).</p> <p>Alternatively, two-pot materials may be used. This is usually a clear wood primer followed by several coats of two-pot polyurethane varnish. This system is not likely to stand as well as a traditional system on a clinker boat.</p>
Fastenings	<p>Generally 12g square copper boat nails clenched up on $\frac{7}{16}$" copper roves. Knees use 10g copper nails clenched up on $\frac{1}{2}$" copper roves. Two nails between each timber in addition to nail through timber.</p> <p>Garboard plank into hog and hood ends of all planks into transoms to be screwed using 1" x 8g and $\frac{3}{4}$" x 8g c/sunk woodscrews either silicon bronze or stainless steel (preferably silicon bronze). As an alternative 14g or 12g bronze 'Gripfast' nails may be used.</p> <p>Thwarts screwed to risers.</p> <p>Knees, gunwhale, rowlock chocks, thwart risers etc. copper clenched with 10g or 12g square boat nails on roves.</p> <p>Keel can be copper clenched to hog with 10g nails and roves, or screwed with generally $1\frac{1}{2}$" x 10g bronze or stainless woodscrews.</p>
Glue	WEST™ system epoxy materials.
Gunwhale	Oak or European ash 20mm sided x 25mm moulded.
Hog	Mahogany, oak or elm. 75mm sided x 20mm moulded. Profile of underside can be found from using 'Hog', 'Rebate' and 'Ghost c/line' dimensions in Table of Offsets.

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Keel	Oak. Rectangular, 40mm sided x 20mm moulded to position –1635, then deepening out to 70mm at aft end. Brass strip 25mm x 3mm or similar screwed to underside.
Knees	Oak crooks if available. Otherwise 25mm to 30mm laminated throat and arms with blocking to make up full throat depth.
Planking	Mahogany or pitch pine. Finished thickness 8mm minimum, 10mm maximum. Garboard 10mm. Nine planks each side.
Rowlock chocks	Mahogany.
Steamed timbers	Fresh oak or European ash. Finished size 15mm sided x 10mm moulded.
Thwart risers	Mahogany 15mm sided x 30mm moulded.
Thwarts	Mahogany. Aft thwart 200 wide; mid and fwd thwarts 180mm wide. Thwarts 20mm thick. Aft and mid thwarts may need stiffener beneath - 30mm deep at centre tapering to 15mm at ends x 15mm thick would be suitable. Alternatively mid thwart may have centre post to keel.
Transoms	Mahogany 18mm thick. Sculling notch may be cut in aft transom. Ringbolt 8mm Ø (SL 5421800), for painter should be fitted, passing through fwd transom and top of stem knee
Note:	Also see building instructions for more detailed discussion of some of the materials used in the construction of the boat.