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# BURNETT YACHT DESIGN

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YACHT DESIGN AND NAVAL ARCHITECTURE

UNIT 9 DART MARINE PARK, STEAMER QUAY ROAD, TOTNES, DEVON, TQ9 5AL  
<http://www.burnettyachtdesign.co.uk> Tel / Fax: +44 (0)1803 868800 [mail@burnettyachtdesign.co.uk](mailto:mail@burnettyachtdesign.co.uk)

IN ASSOCIATION WITH

## Nigel Irens Design

### ROMILLY Strip Plank Version - DESIGN NOTES

#### HISTORY

The first Romilly prototype was designed and built in 1995. She was constructed from single skin GRP and shortly after her launch Dartington Boatworks was set up to build and market the Romilly and Roxane designs. Unfortunately, Dartington Boatworks went out of business in 1996 however both production boat projects were passed to Bridgend Boat Company in Plymouth who built several of the boats. Recently, the moulds have again moved and the boats are now built by Van Veen Yachtbouw in the Netherlands.

We have had many enquiries from potential amateur builders interested in building either design using wood epoxy methods and these plans have been developed to make this possible. There are a few small changes to the production Romilly design, which reflect the change of material and also incorporate a bit of development, drawing on our experience with the production version.

#### SPECIFICATION

LOA	6.72m	(22' 0")
LWL	5.96m	(19' 6")
Beam (max.)	2.12m	( 6' 11")
BWL	1.52m	( 5' 0")
Draught (board up)	0.5m	( 1' 8")
Draught (board down)	1.54m	(5' 1")
Displacement	1.5 tonnes (full load)	
Total Sail Area	22.5m <sup>2</sup>	(242ft <sup>2</sup> )

EU RCD: Design category D (inshore)  
 Assess and self certify under module A if boat is to be placed on the EU market within five years of building.

#### THE HULL STRUCTURE

The hull is constructed from Western Red Cedar Planking, over eight plywood bulkheads and frames. The transom and stem are also set up before planking. It is up to each builder whether to use a tongue and groove section strip plank (like "speed strip") or a "concave / convex" section. Some may even choose to use a conventional bevelled edge section with edge fastenings between frames. The planked hull has an external glass sheathing to help prevent

damage to the planking and ensure the structure remains sealed.

All the frames and bulkheads are specified as 12mm ply. Most of the fit out of the hull and deck is also plywood of varying thickness, although some builders may wish to substitute a solid timber of their choice in some places.

The entire structure is glued and sealed with epoxy resin.

### **KEEL, CENTREBOARD AND RUDDER**

The keel is a lead casting, and is bolted on externally in the traditional manner. It has a slot in the centre for the centreboard. The centreboard itself is a ply and glass sheathed steel fabrication.

The rudder is made up from layers of ply, again protected by a glass sheathing.

### **THE RIG**

Romilly's lug yawl rig is one of the main features of the design, and its light weight helps the boat to perform well with her shallow draught and minimal displacement.

The production boats use all carbon fibre main spars, and glass fibre mizzen spars. We include plans for these in the package which should give enough information for any composite spar manufacturer to build them. We appreciate that some amateur builders may need to minimise the cost of the project and prefer to build hollow timber spars for the boat. For this reason we include plans for timber spars, although we still recommend that the major spars be built from carbon. The design notes incorporate a section on making the decision on spar material and include some comparisons which will allow the builder to assess the likely differences in stability and performance.

One of the developments from the production boat is the inclusion of a boom on the mainsail. This makes the main sail easier to handle and much more efficient off the wind. It also eliminates the need for any winches on the boat.

## ROMILLY Strip Plank Version - DESIGN INFORMATION AND PRICE

### DESIGN DRAWINGS

<i>Drawing</i>	<i>Reference</i>	<i>Scale</i>	<i>Format</i>
LINES PLAN	ROMSP-01	1:20	A3
FULL SIZE LOFT TEMPLATES (2 STRIPS)	-	1:1	(SEE NOTE)
STRUCTURAL ARRANGEMENT	ROMSP-02	1:20	A3
STANDARD SECTION (F4)	ROMSP-03	1:10	A3
STRUCTURAL DETAIL:			
FORWARD	ROMSP-04.1	1:20	A3
MIDSHIPS	ROMSP-04.2	1:20	A3
AFT	ROMSP-04.3	1:20	A3
CENTREBOARD	ROMSP-05	1:5	A3
RUDDER	ROMSP-06	1:5	A3
BALLAST KEEL	ROMSP-07	1:7.5	A3
SAIL PLAN	ROMSP-08	1:40	A3
SPAR PLANS:			
MAIN SPARS (CARBON)	ROMSP-09.1	1:25/10	A3
MIZZEN SPARS (GLASS)	ROMSP-09.2	1:25	A3
MAIN SPARS (TIMBER)	ROMSP-09.3	1:25/10	A3
MIZZEN SPARS (TIMBER)	ROMSP-09.4	1:25	A3
DECK PLAN	ROMSP-10	1:33 <sup>1</sup> / <sub>3</sub>	A3

### ADDITIONAL INFORMATION

<i>Title</i>	<i>Format</i>
RUNNING RIGGING SKETCHES	3 SHEETS A3
RUNNING RIGGING / BLOCK LIST	1 SHEET A3
DESIGN SPECIFICATION AND NOTES FOR BUILDERS	A4 BOOKLET
INCLUDES:	CE Marking Information Structural Specification Guidance notes for builders

### DESIGN PRICE

The full set of drawings and additional information is available for a price of £300.

NOTE: Full size loft templates are plotted onto heavy film. The film is transparent and more robust than paper which eases the transfer of the frame shapes to the plywood, it is also a more stable medium which can be kept for considerable time without distortion.