

BLUESTORM



Sailboat designs by Keith Callaghan

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BLUESTORM is a slightly larger (4 berth) version of *Blue Lightning*, at 7metres LOA. With her vertical stem, she uses her full length when sailing, and should be a match for sportsboats like the Hunter 707. Though she has only 70% of the sail area, she has the same sail area to displacement ratio (24) and a much lower displacement/length ratio (84 vs 126). Unlike the 707, she can be towed behind a Volkswagen Golf!

She promises to be an exciting development of the original *Blue Lightning* concept. A German company - Tischlerei Förster GmbH - is building several boats to this design. The newly opened-up regions of the former East Germany and Poland contain vast areas of forest lagoons and lakes which are ideal for the trailer-sailer. The first boat, named 'Antje' was completed at the works of Tischlerei Förster GmbH in Wardenburg, Germany. She was launched in early 2004, and had her first sailing trials at the end of April 2004, in company with 'Blue Lightning', on the Baltic coast around Stralsund.

PRINCIPAL DIMENSIONS

Length Overall	7.00m
Length Waterline	7.00m
Beam	2.34m
Draft (board up)	.20m
Draft (board down)	1.60m
Sail Area	22.0 sq m
Displacement inc 2 crew	995kg
Towing Weight inc trailer	1175kg

Fully detailed PLANS of **BLUESTORM**, consisting of about 50 sheets, are available from the designer, Price £275.00 (€390.00, \$525.00).
(Approximately 40-50 man/weeks build time).
Price includes royalty for one boat, and free of charge comprehensive support for you during the planning and building of your boat

Support Policy

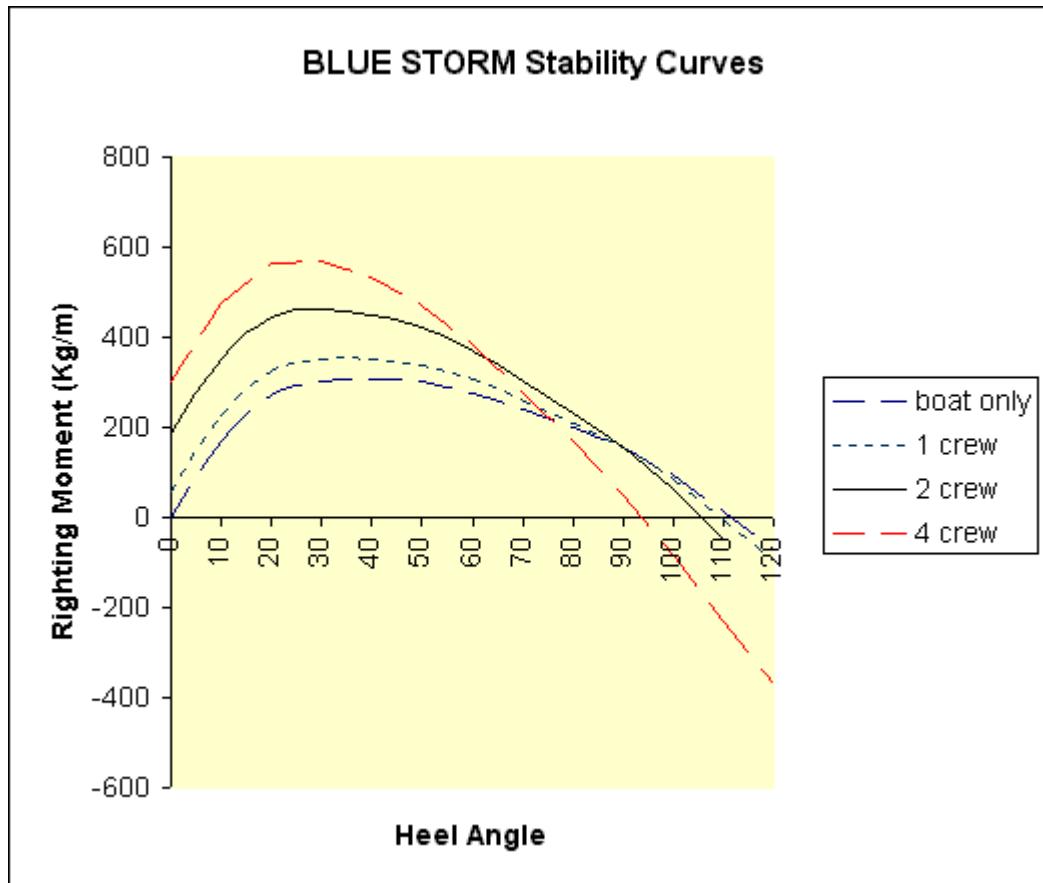
1. *Support is included as part of the package that you purchase with the boat plans.*
2. *I will answer all reasonable questions about how to build my design. As the builder, you are responsible for acquiring sufficient general knowledge about boatbuilding before you start your project. Many good books and other sources of information are available, and I can recommend such information sources.*
3. *The plans and other documentation that I supply are very detailed and contain a great deal of information. You do not get a step-by-step set of building instructions, however.*
It will be useful for you to go through the data thoroughly before you start the project. This will help to minimise mistakes and will speed up the actual construction. If you cannot find the answers in the documentation and drawings, I'm here to help, so please ask me.
4. *I will endeavour to respond promptly to your enquiries. However, I cannot undertake to be available at all times.*

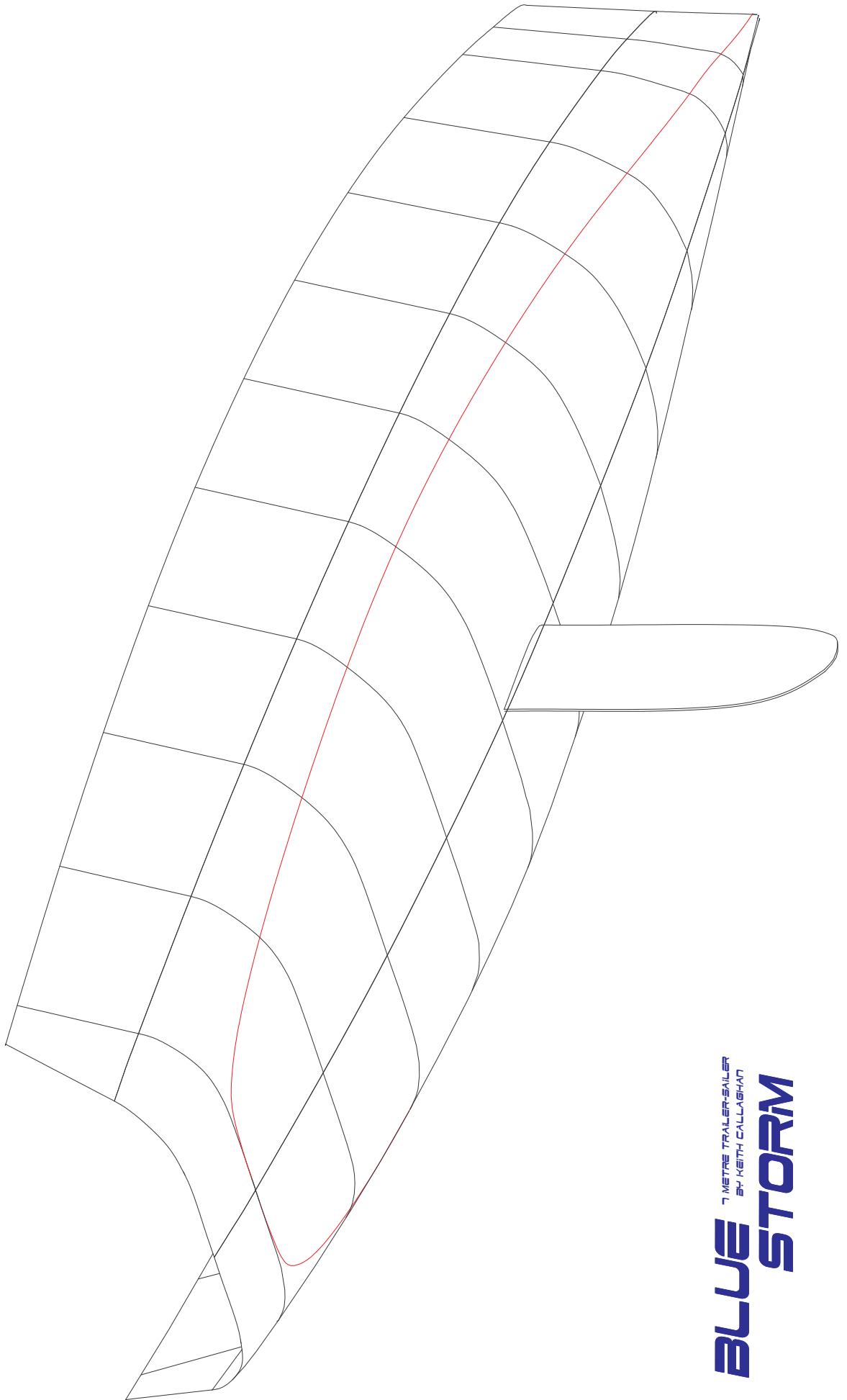
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Blue Storm - Stability Curve





7 METRE TRAILER-SAILER
BY KEITH CALLAGHAN

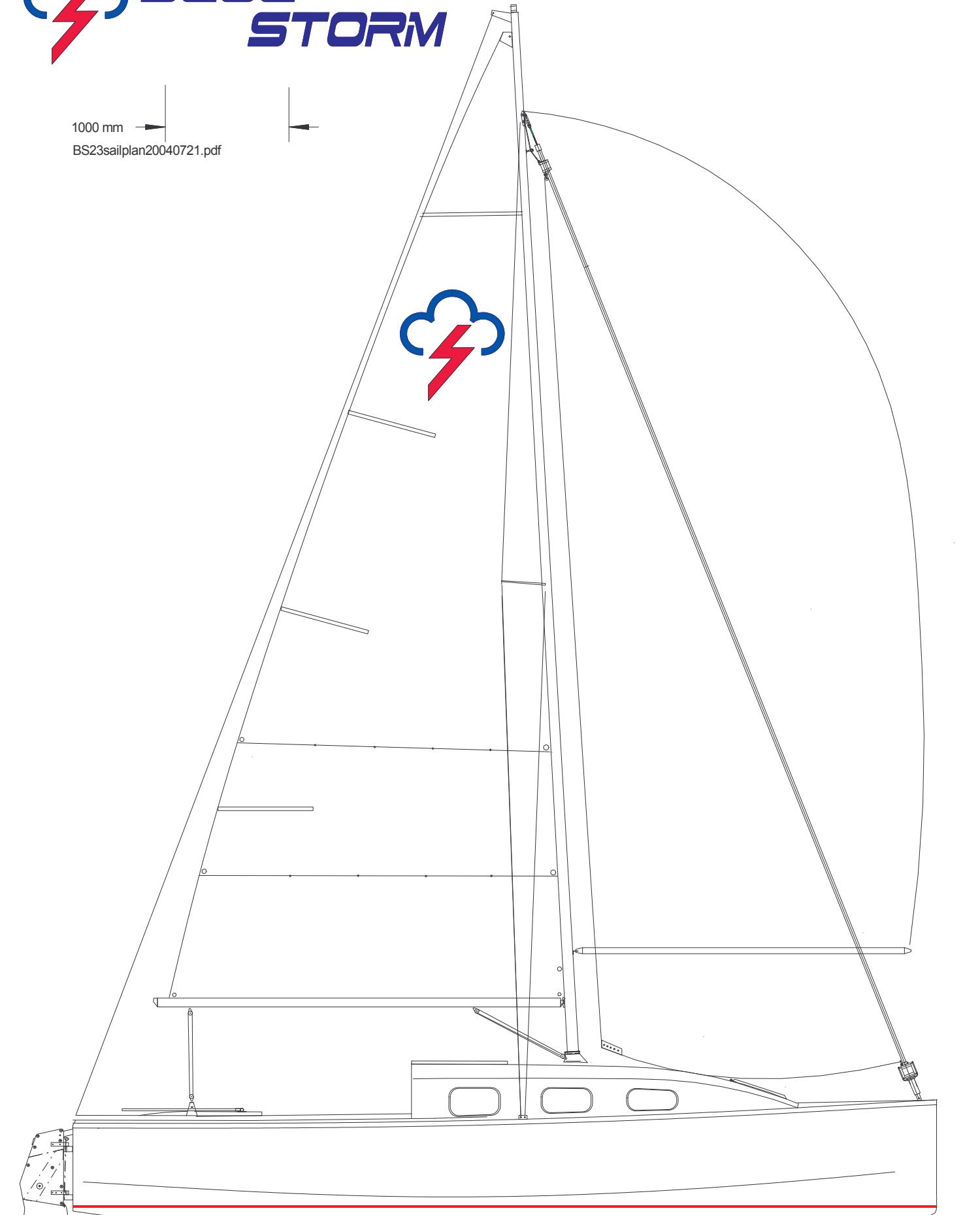
BLUE **STORM**

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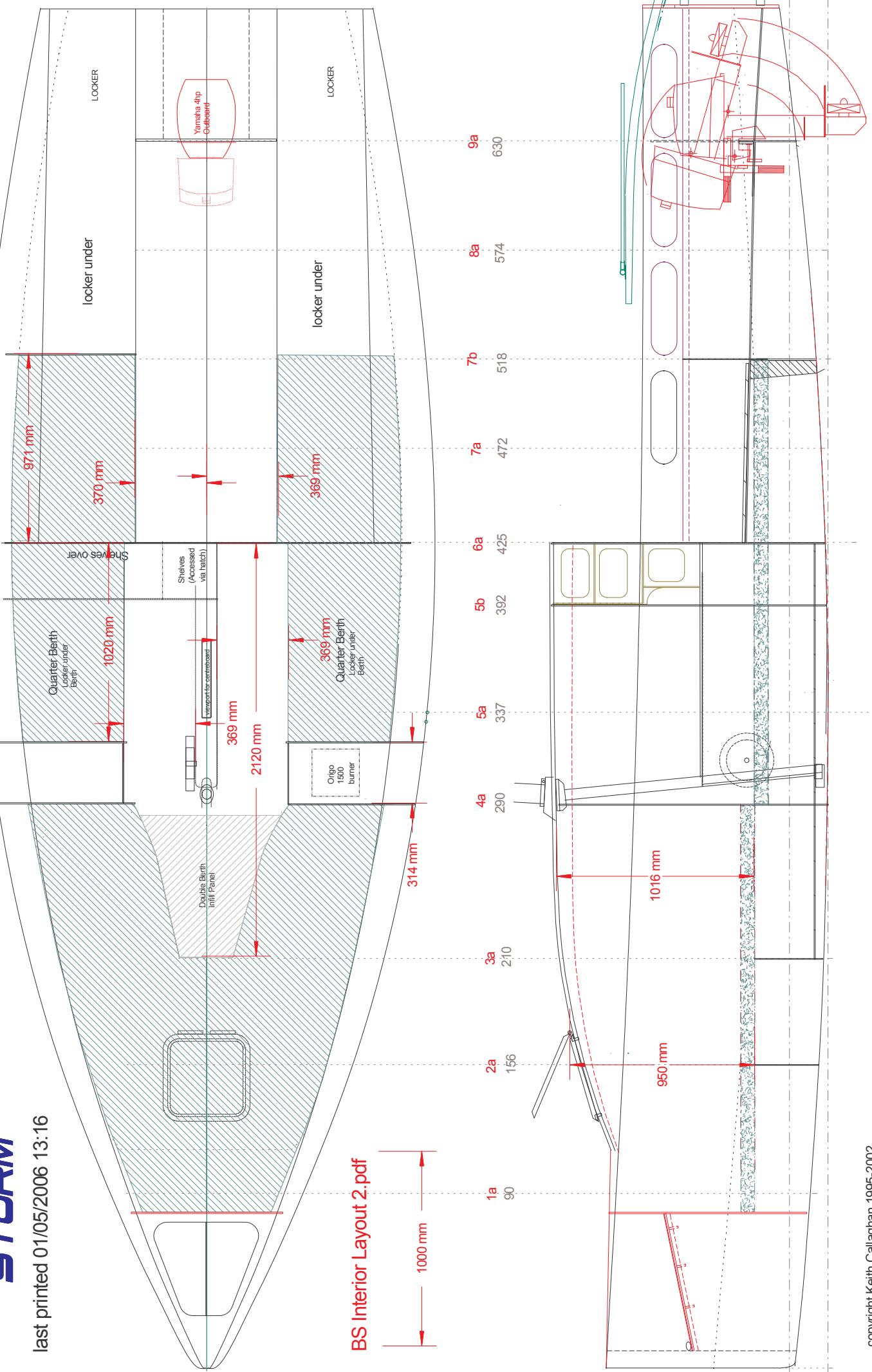
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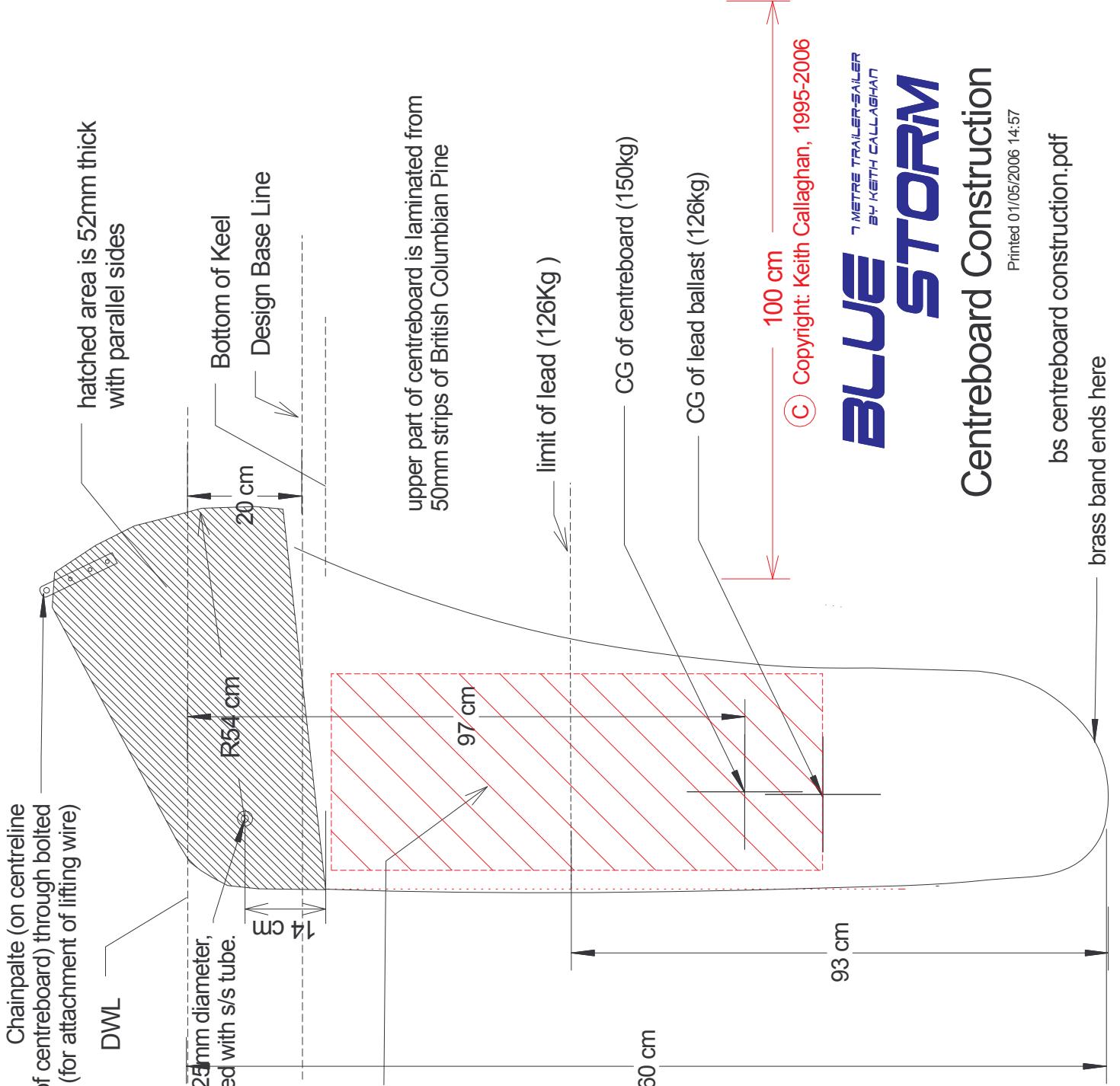
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BS Interior Layout 2.pdf





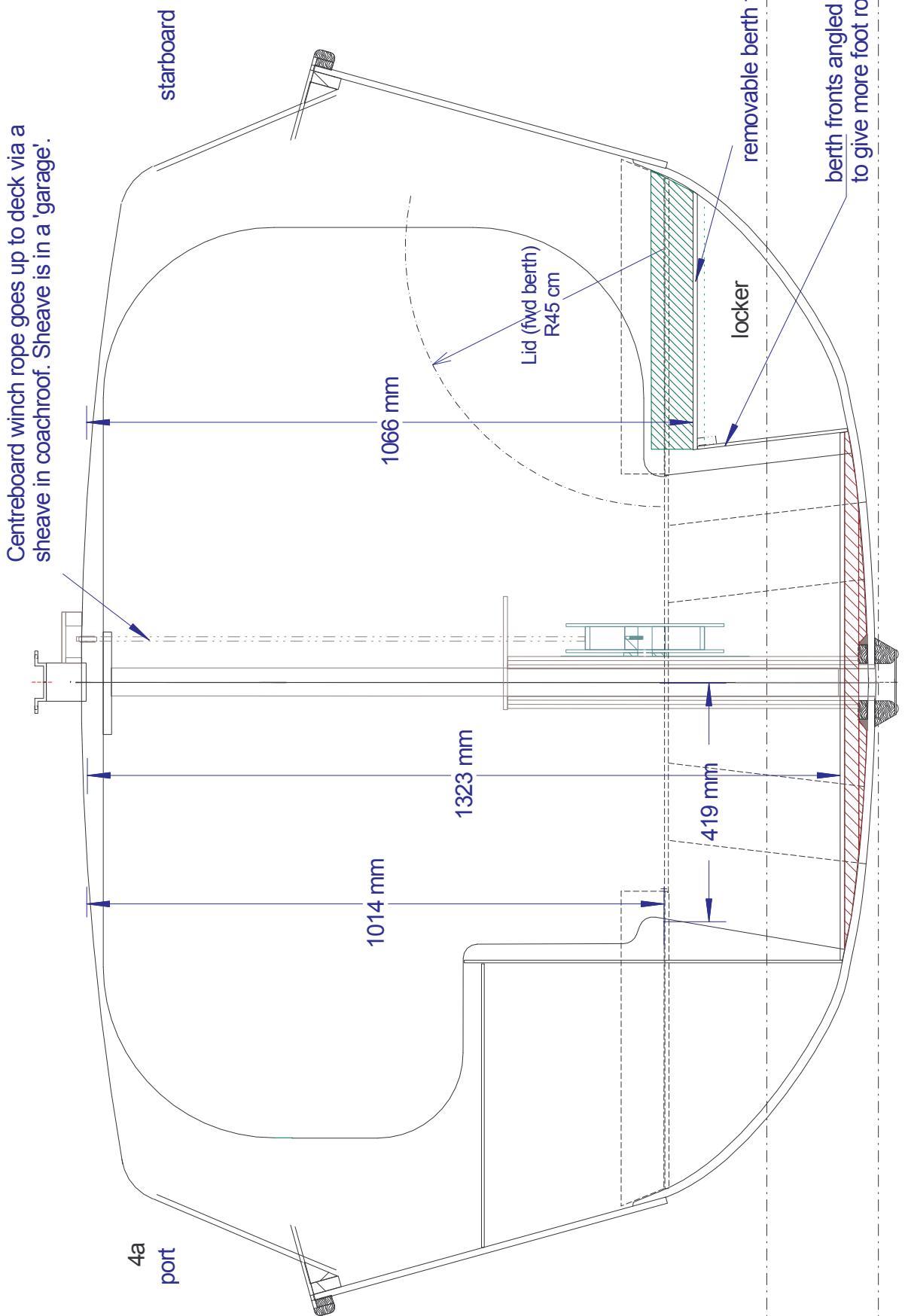
1.5mm stainless steel sheet each side of centreboard, glued with

Centreboard Construction

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bs centreboard construction.pdf

brass band ends here



**Station 4a - mast bulkhead
looking forward**

bs230017.srf / BS sta4a 2900 +40.skf

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BLUE STORM
7 METRE TRAILER-SAILER
BY KEITH CALLAGHAN

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4

CENTREBOARD CASE

The case is made of 1 lamination of 7mm ply, plus 2 additional 7mm laminations forward of the main bulkhead

Before assembly, the inner face is finished with 1 layer of glass cloth overall, with an additional layer forward of the main bulkhead

Coordinates on lower edge of centreboard case are to outside skin*. ie the lower edge of the inner case lamination only.

The outer laminations are higher by the thickness of the skin plus hog.

See drawing bscbc02_skf

* except area fwd of CB case slot

outline of inner ply
lamination of case

(+4250)

50mm dia (port side)
25mm clearance (stbd side)

Dotted line shows outline
of outer laminations of
case (fwd of main
bulkhead)

top of hog

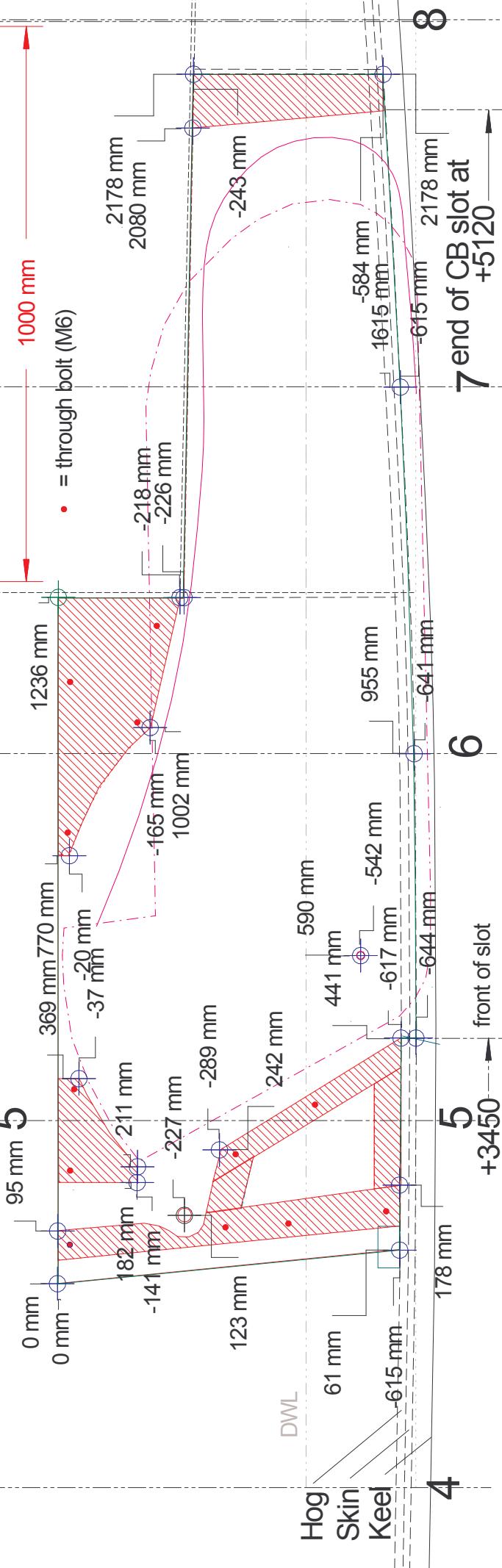
16mm clearance

outside skin

Assumed thicknesses:

HOG: 15mm
Skin: 12mm

If actual thicknesses are
different, then bottom of
case profile must be
adjusted accordingly.



BSI KETTLE CALLAGHAN

7 METRE TRAILER-SAILER

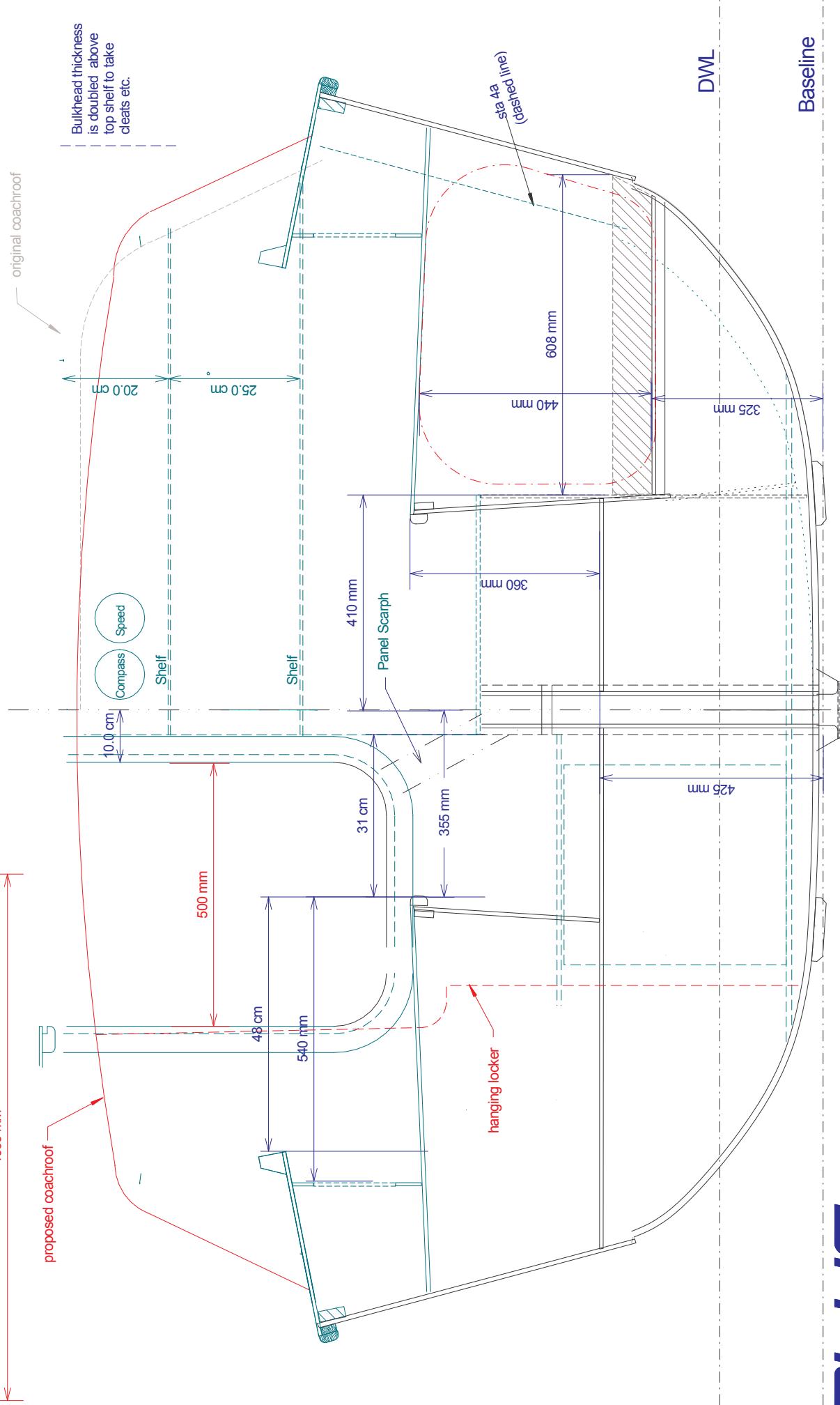
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BLUE STORM

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BLUE
7 METRE TRAILER-SAILER
BY KEITH CALLAGHAN

STORM

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MAIN BULKHEAD Sta 6a

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SHEERLINE RAISED 40mm

FROM AFT - LOOKING FORWARD