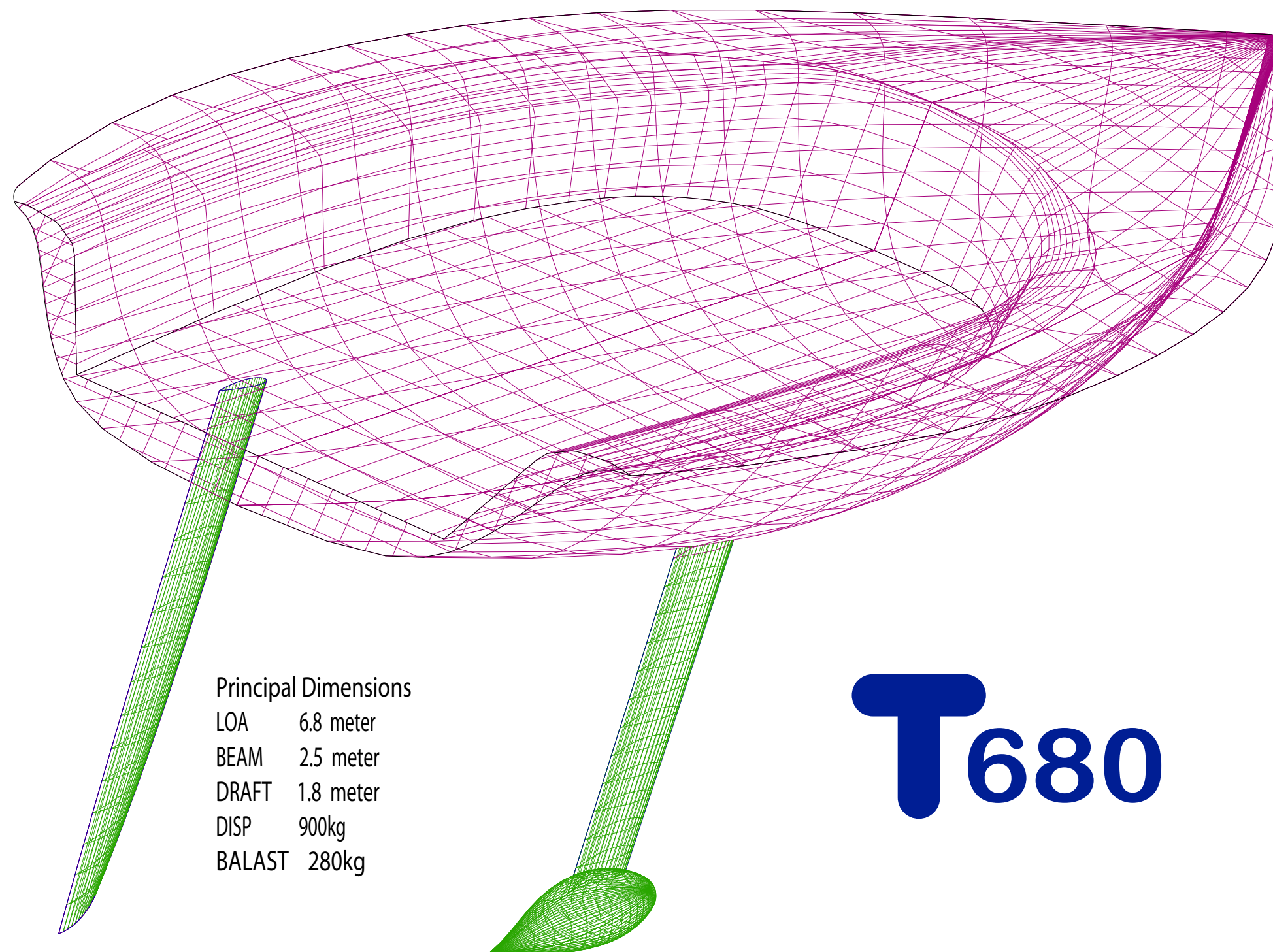




Principal Dimensions

LOA 6.8 meter
BEAM 2.5 meter
DRAFT 1.8 meter
DISP 900kg
BALAST 280kg

T680

Thompson 680

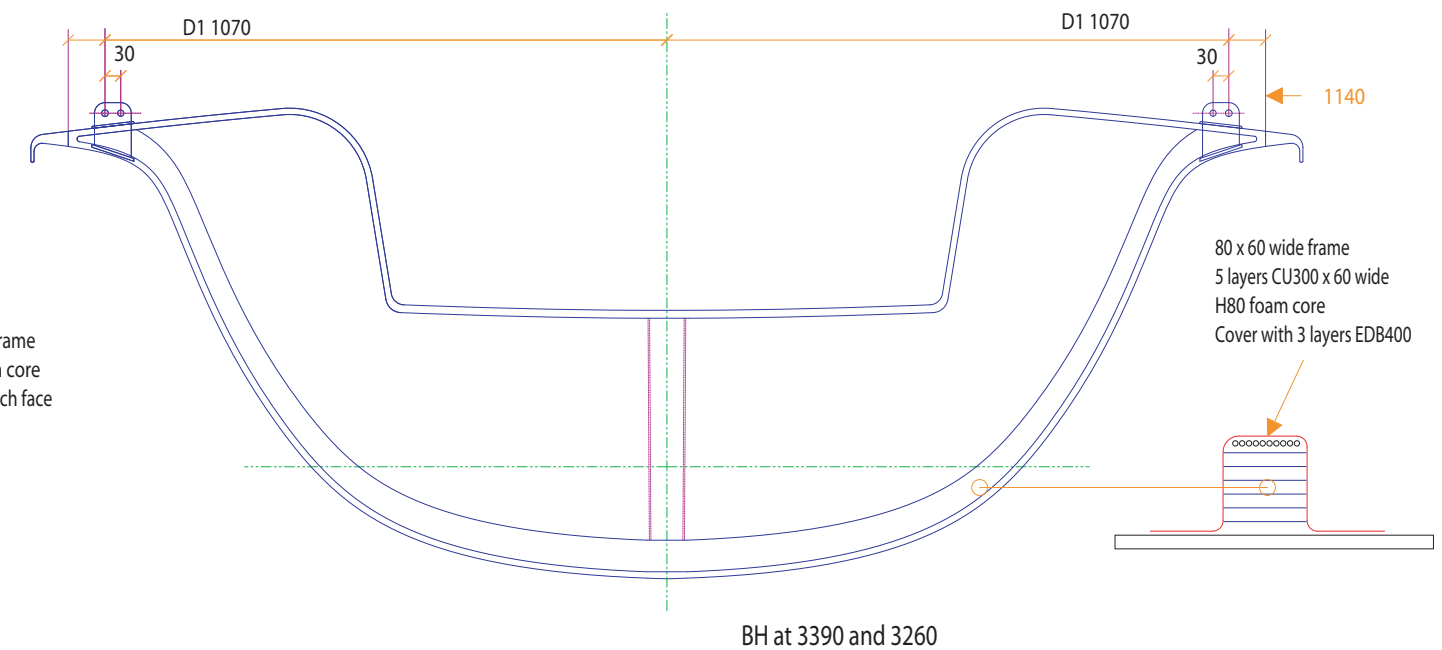
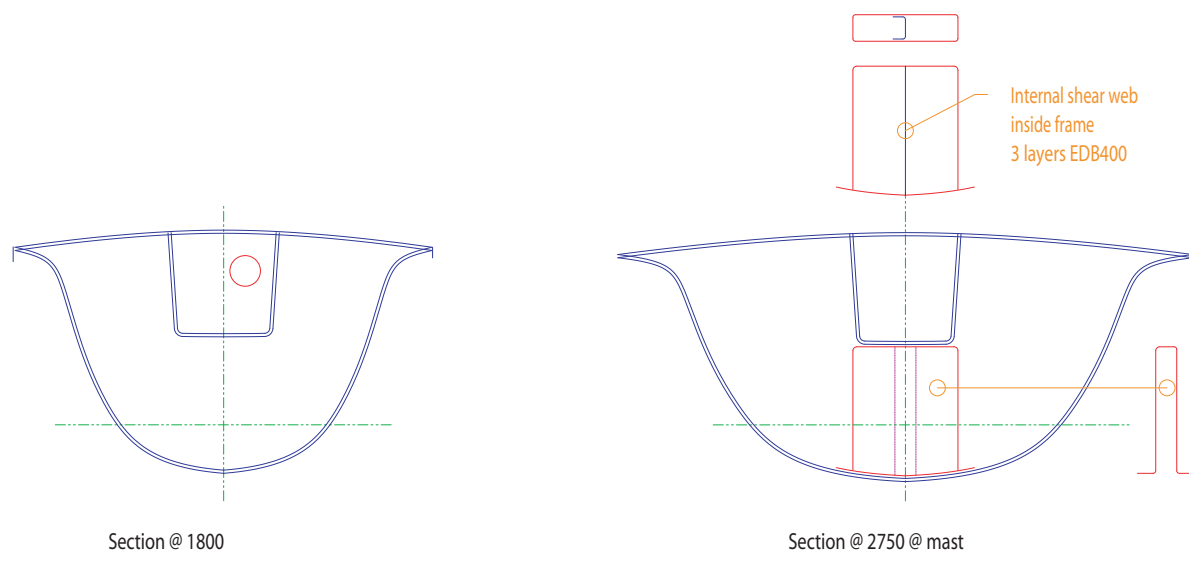
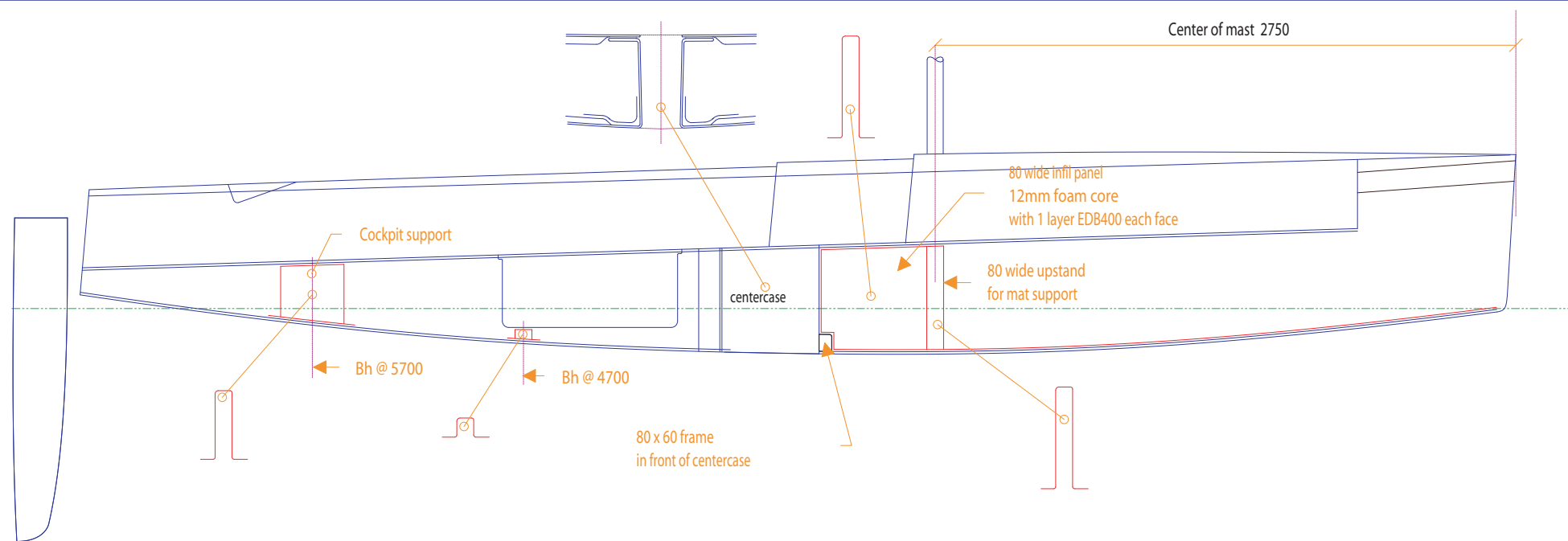
Drawing List

Drg No.		Date	Rev
1.0	Hull Frame Setout	Sep-02	A
2.0	Table of Offsets	Sep-02	0
3.0	Bow waterlines	Sep-02	0
5.0	Construction Setout	Sep-02	B
5.1	Hull structure	Sep-02	
5.2	Hull Sections	Sep-02	
5.3	Moulding Details	Sep-02	
5.4	Hull Mould	Sep-02	0
5.5	Deck Mould	Sep-02	0
6.0	Deck Fitout	Sep-02	0
6.1	Deck Construction	May-03	
6.2	Wing Removal	Apr-03	
6.3	Control Lines	-	
6.4	Spin Sheet Tube	Apr-03	
7.0	General Const details	Apr-03	
7.1	Chainplate Details	Feb-03	
7.2	Centercase details	Sep-02	A
7.3	Stem/Prod Details	-	
7.4	Mast Base	May-03	
7.4	Mast base Developed	May-03	
8.0	Rudder Setout	Sep-02	0
8.1	Rudder Construction	Sep-02	0
9.0	Keel Shape	Sep-02	0
9.1	Keel Structure	Sep-02	0
9.2	Keel Details	Sep-02	A
10.0	Bulb	Sep-02	0
11.0	Sail Plan -Sport	Feb-03	
11.1	Rig/Sail Plan -Sport	Feb-03	
11.2	Rig Details	Feb-03	
11.3	Sail Plan -Club	Feb-03	
11.4	Rig/Sail Plan -Club	Feb-03	
11.5	Sail/Hull Logos	-	
12.0	Trailer setout	-	
12.1	Trailer Structure	-	
12.2	Kel lifting crane	-	
Full size patterns		Sep-02	
Hull Const Frames		Sep-02	A
Deck Const Frames		Sep-02	
Keel sections		Sep-02	
Keel centercase		Sep-02	
Bulb		Sep-02	
Rudder sections		Sep-02	

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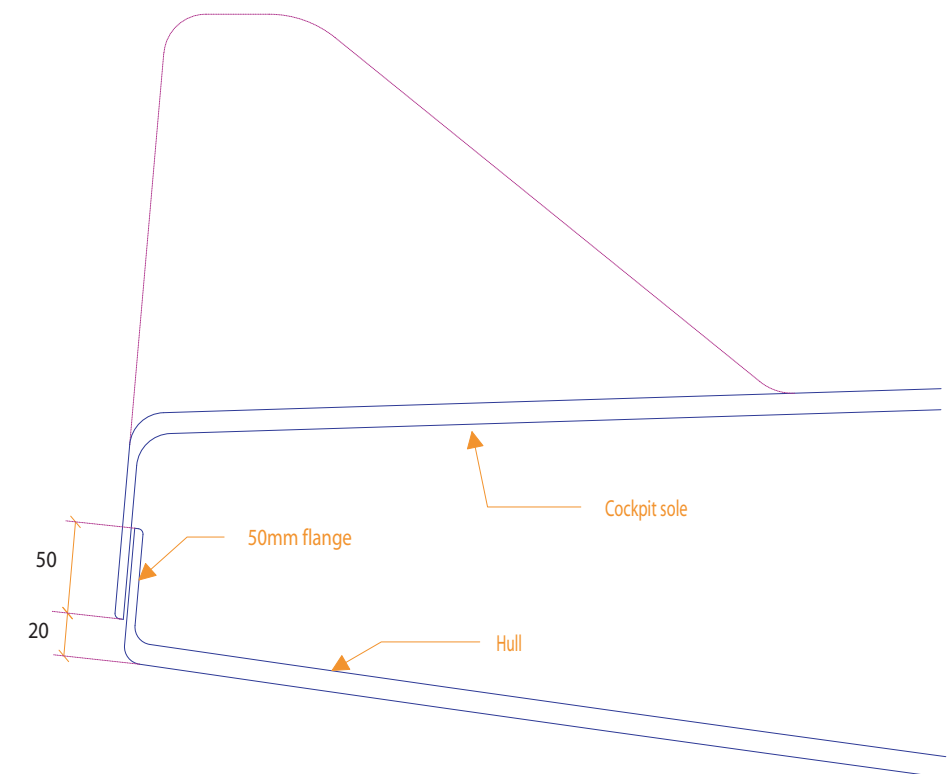
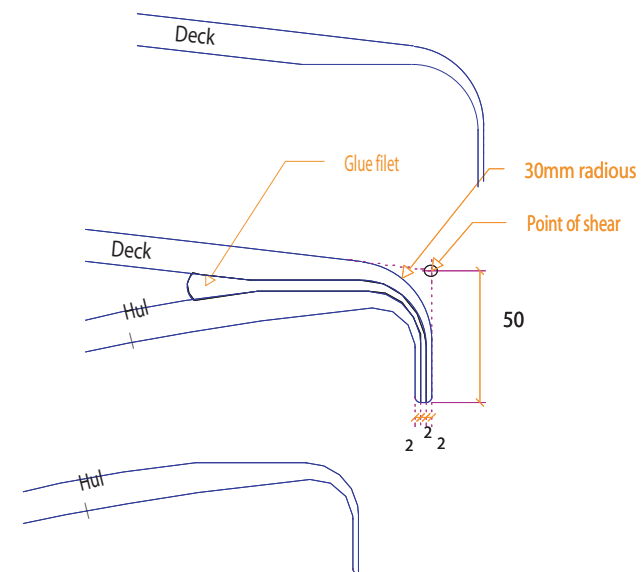


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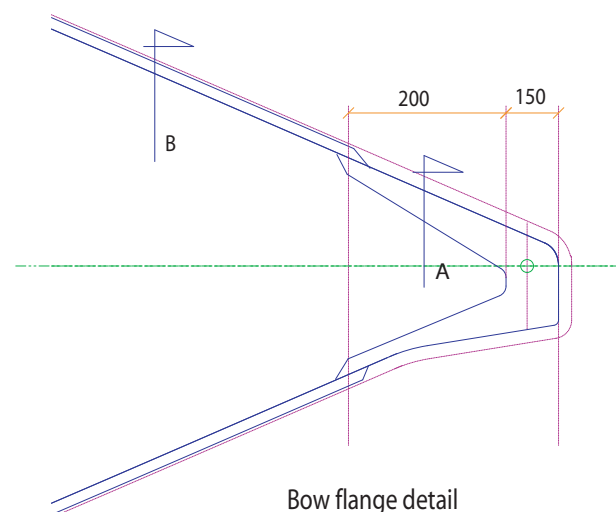
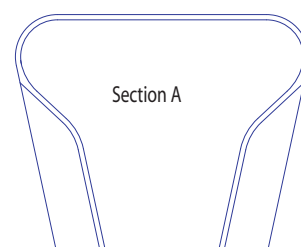
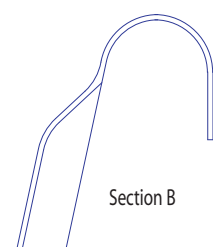
Racing Yacht		
Hull Sections	Orig 5.2	Rev 0
Scale 1:20	April 2003	

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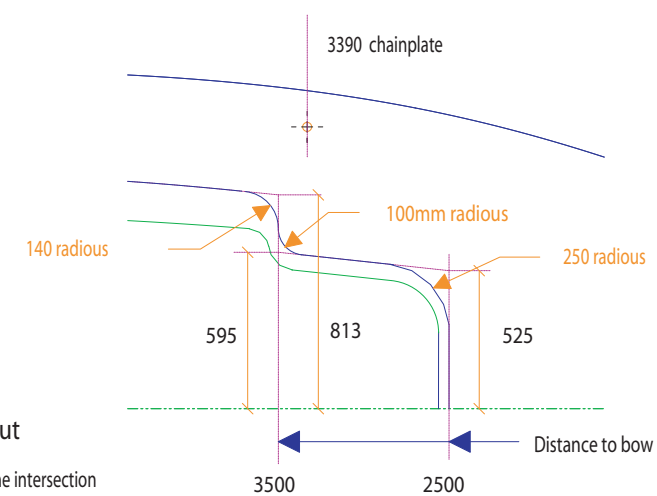
Detail of Hull/deck joint at transom

The deck flange continues down the transom as shown



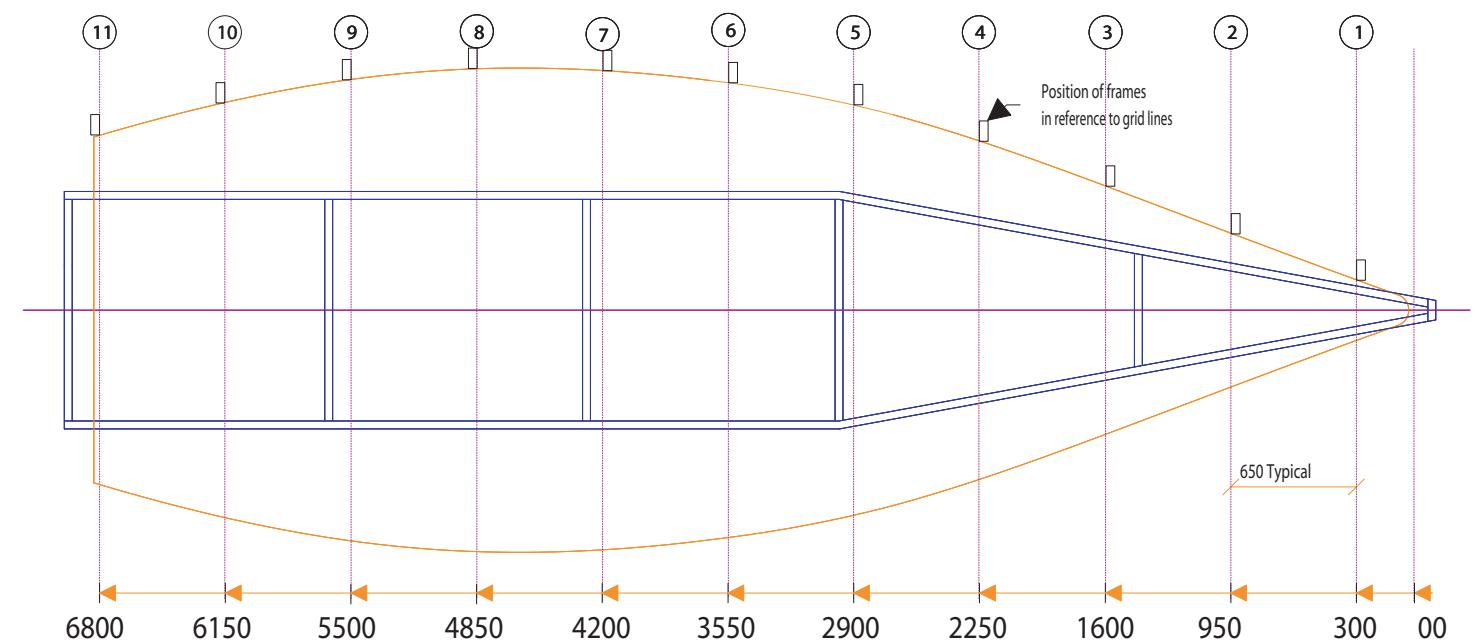
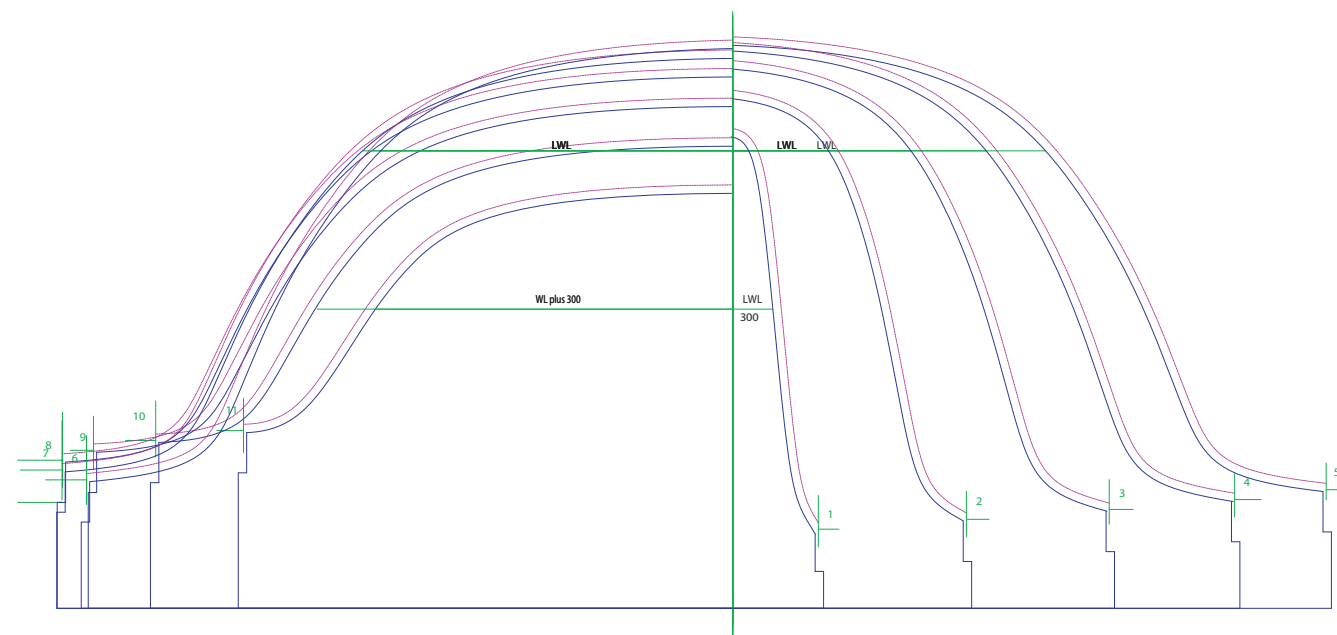
Bow flange detail

The hull flange is not able to be built to the bow
Replace the flange on the hull with an internal flange as shown

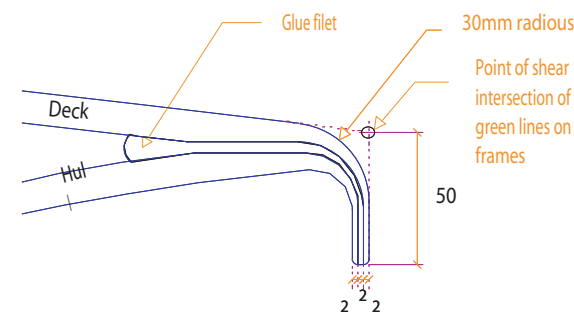
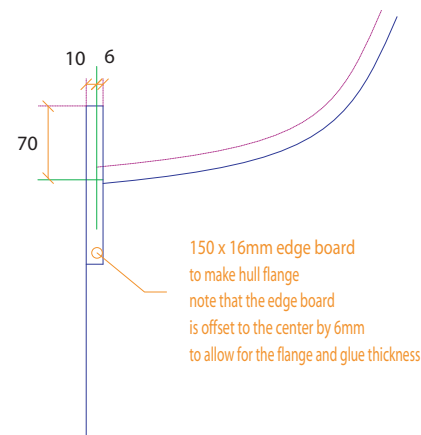


Cockpit layout

Dimensions are of the intersection of the cockpit side and the deck refer also to the Drg 5.0 for the cockpit sides



Strongback setup for Mould
use 200 x 50 timber



Making of moulds

- Make mould plug using 16mm MDF using 16mm x 40mm planks
- Finish plug to a high gloss laquer finish and take off polyester mould with tooling gelcoat finish inside
- The hul/deck flange is to be built into the moulds

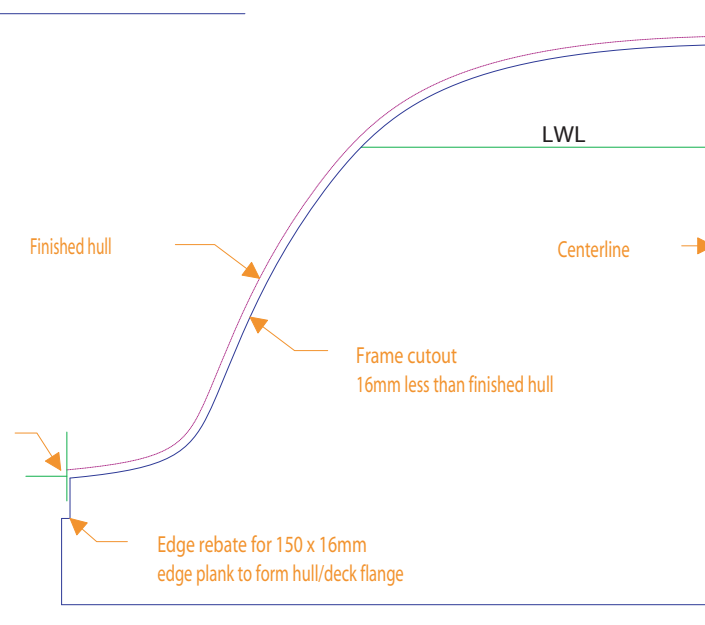
Plug Manufacture

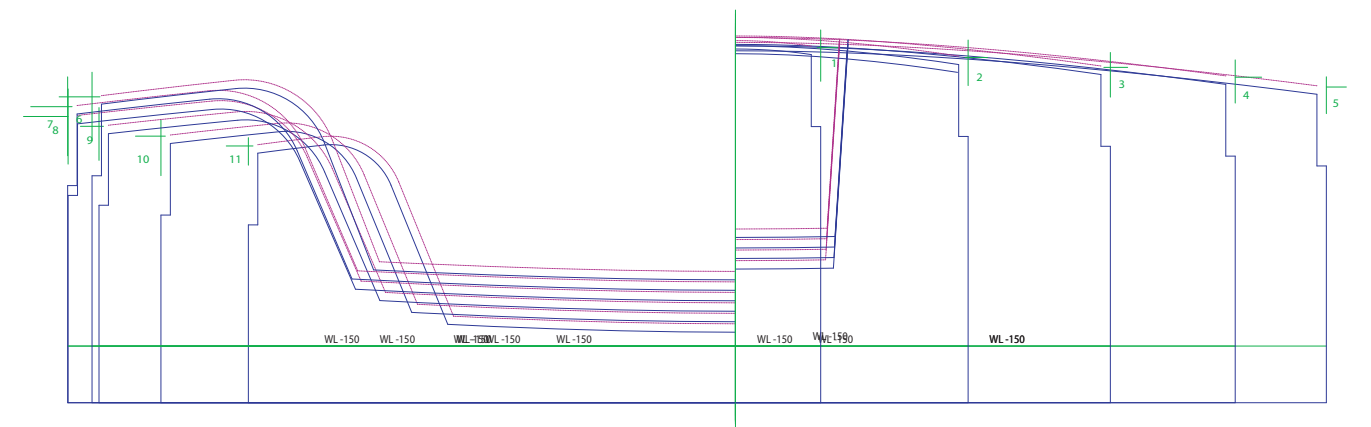
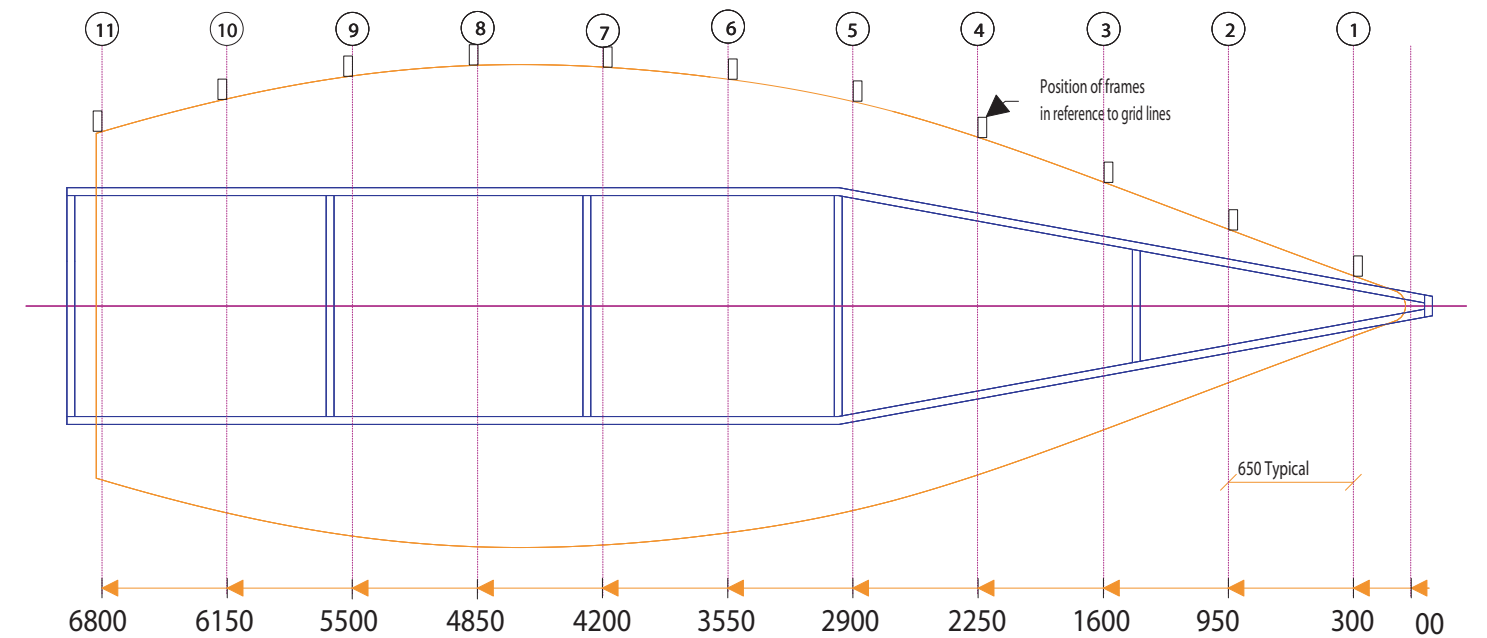
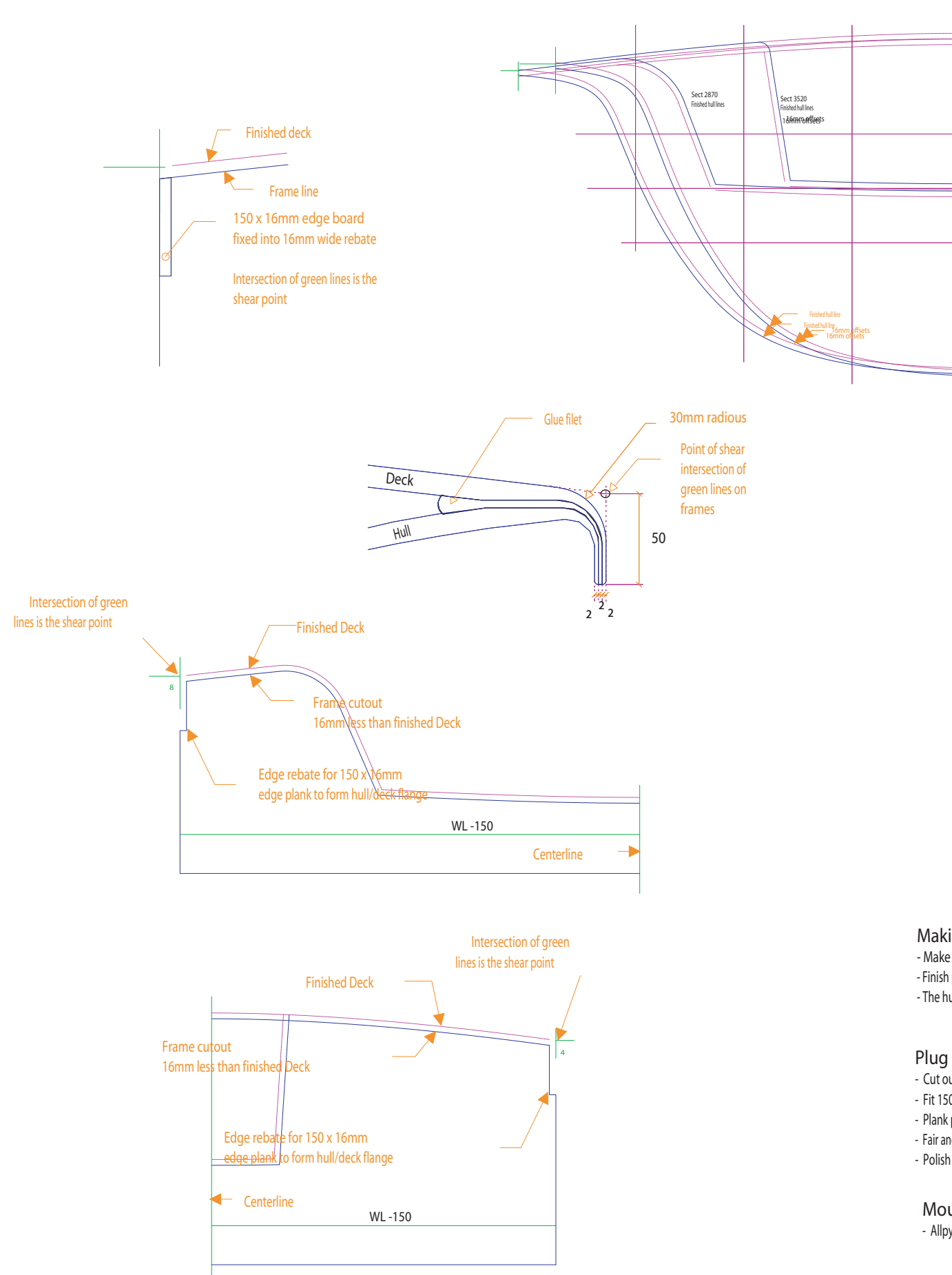
- Cut out frames and stand using cenelines and waterlines for reference
- Fit 150 x 16mm side plank into rebates at edge of planks.
(this may need to be screwed in place for easy removal while planking and finishing the hull plug)
- Fit transom
- Plank plug with 40 x 16mm planks glueing and nailing into place.
- Fair and paint to a high gloss finish
- Polish prior to taking off mould with a suitable mould release wax system

Mould manufacture

- Allpy tooling gelcoat and glass to manufacturers specification, using a slow buildup as required
- The hull mould is to include the transom flange.

Intersection of green
lines is the shear point





Making of moulds

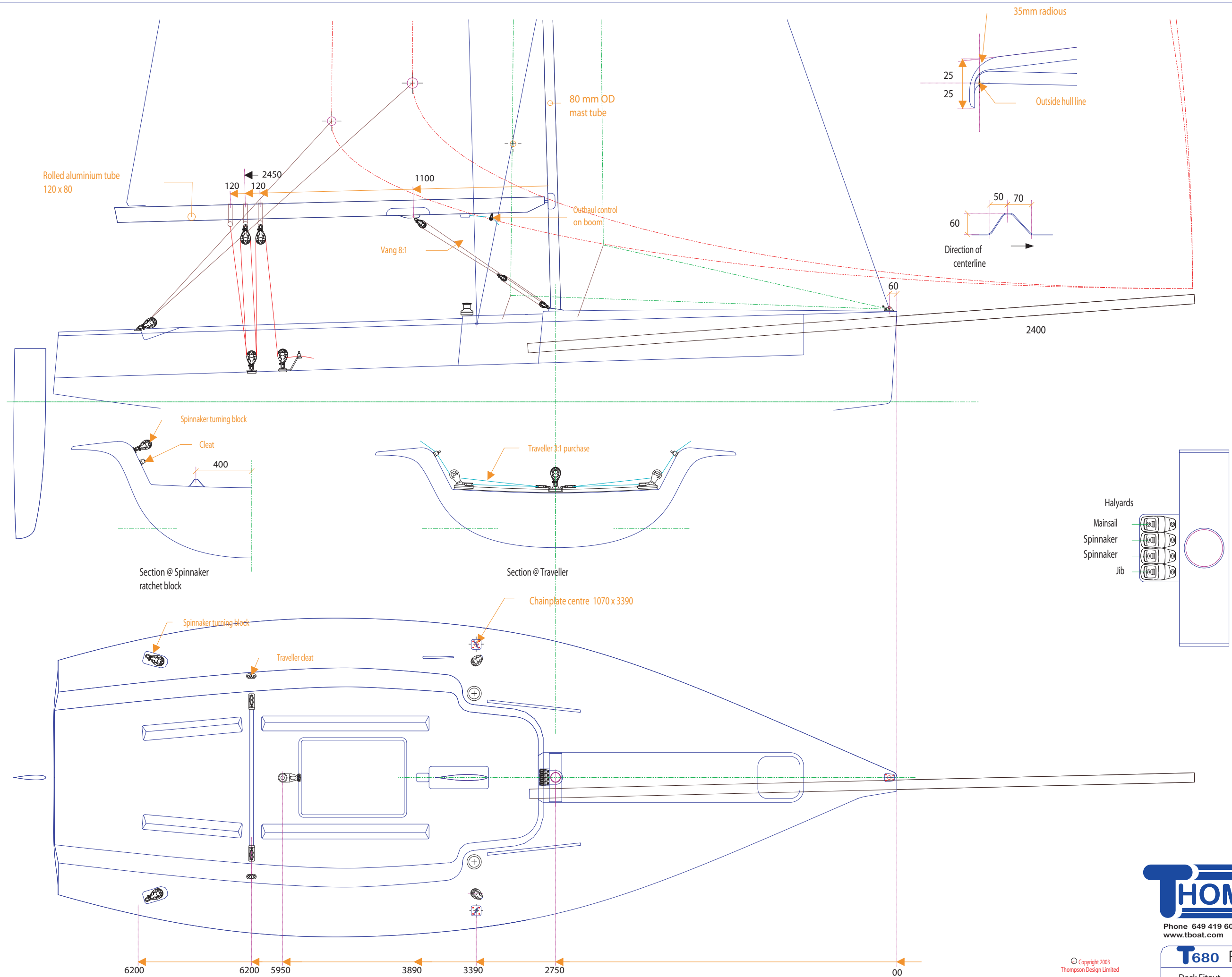
- Make mould plug using 16mm MDF using 16mm flat panels and 16mm x 40mm planks where required
- Finish plug to a high gloss laquer finish and take off polyester mould with tooling gelcoat finish inside
- The hull/deck flange is to be built into the moulds

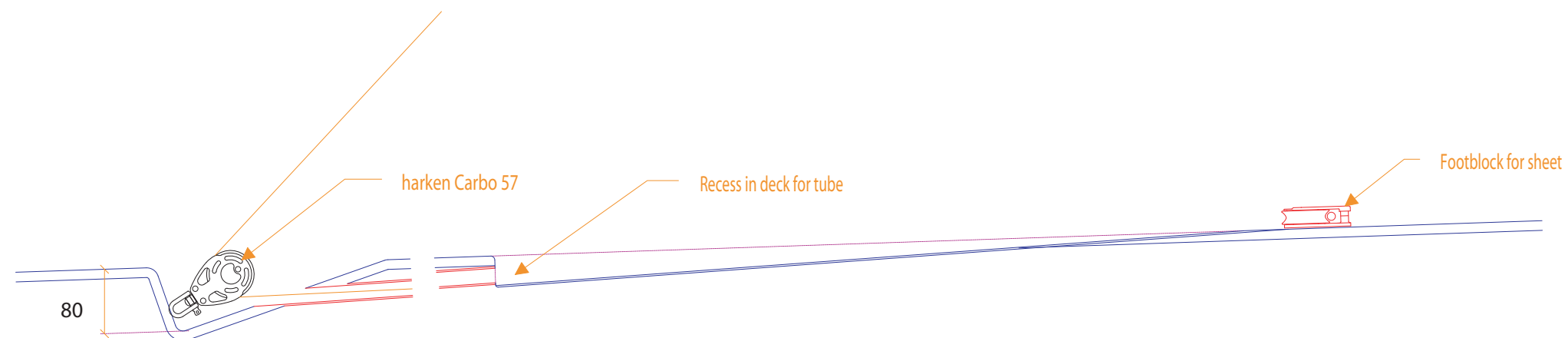
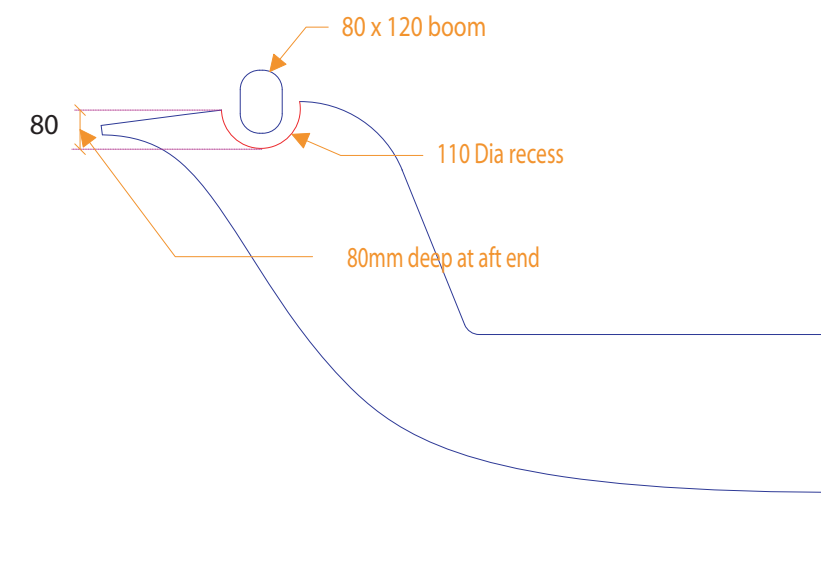
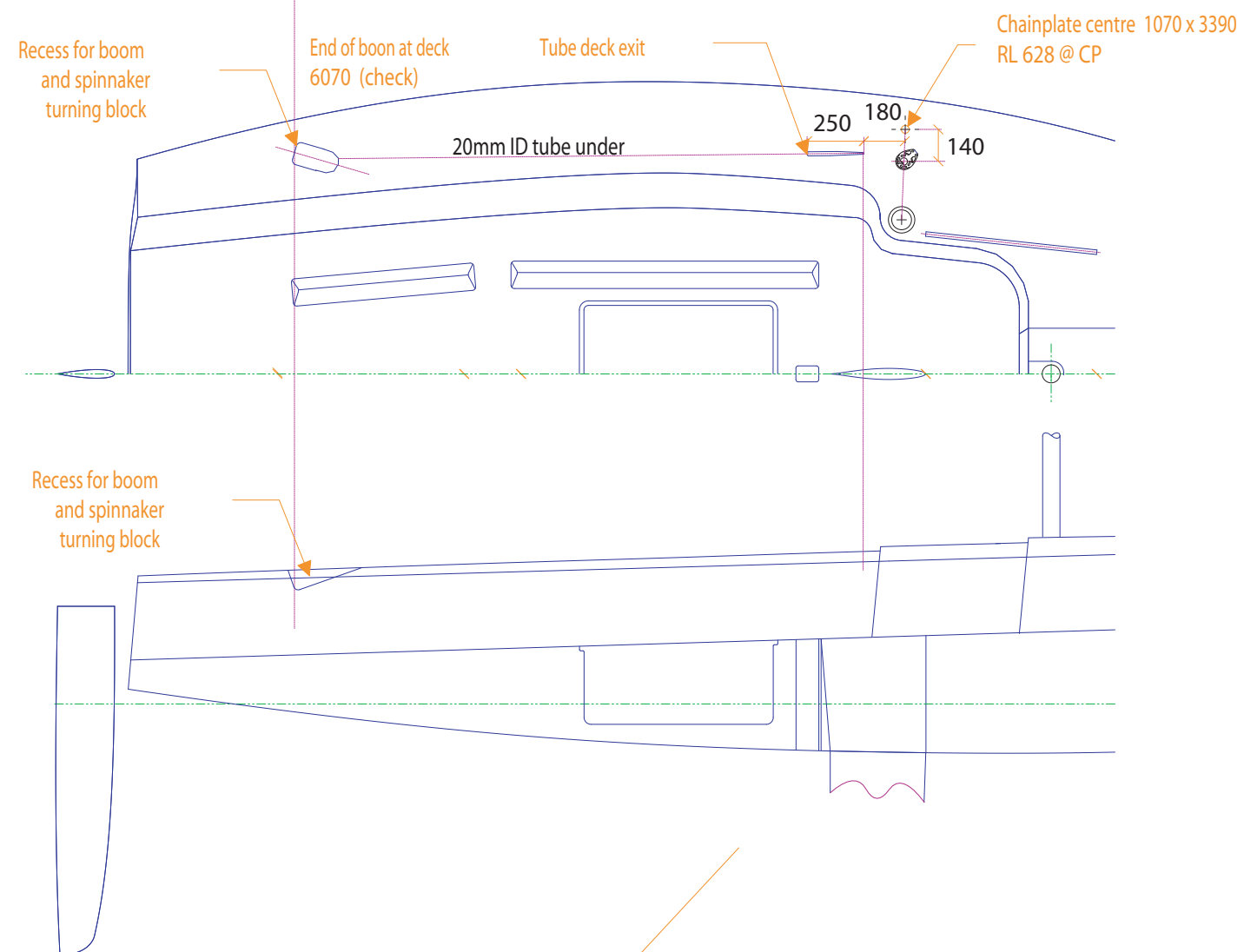
Plug Manufacture

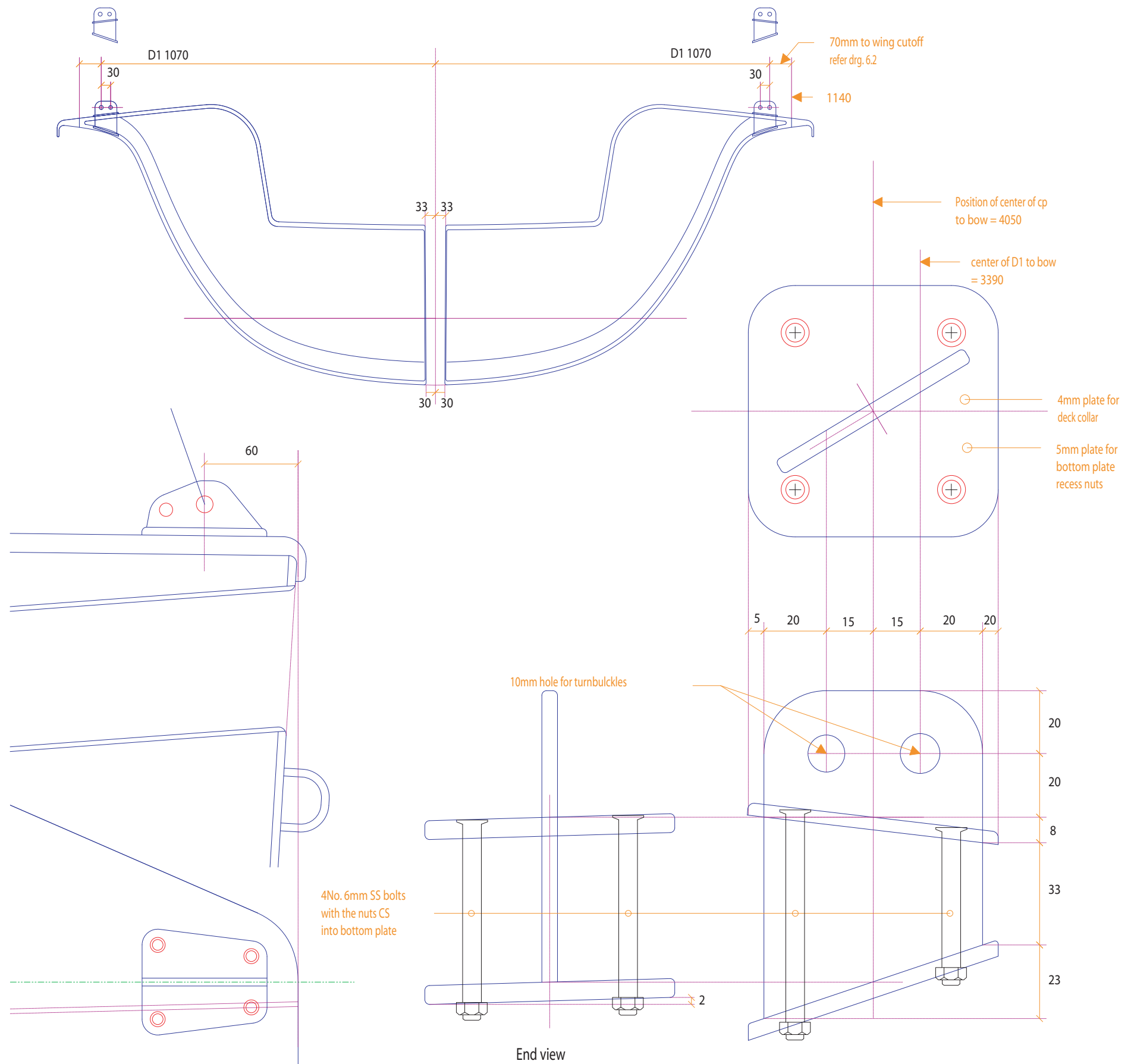
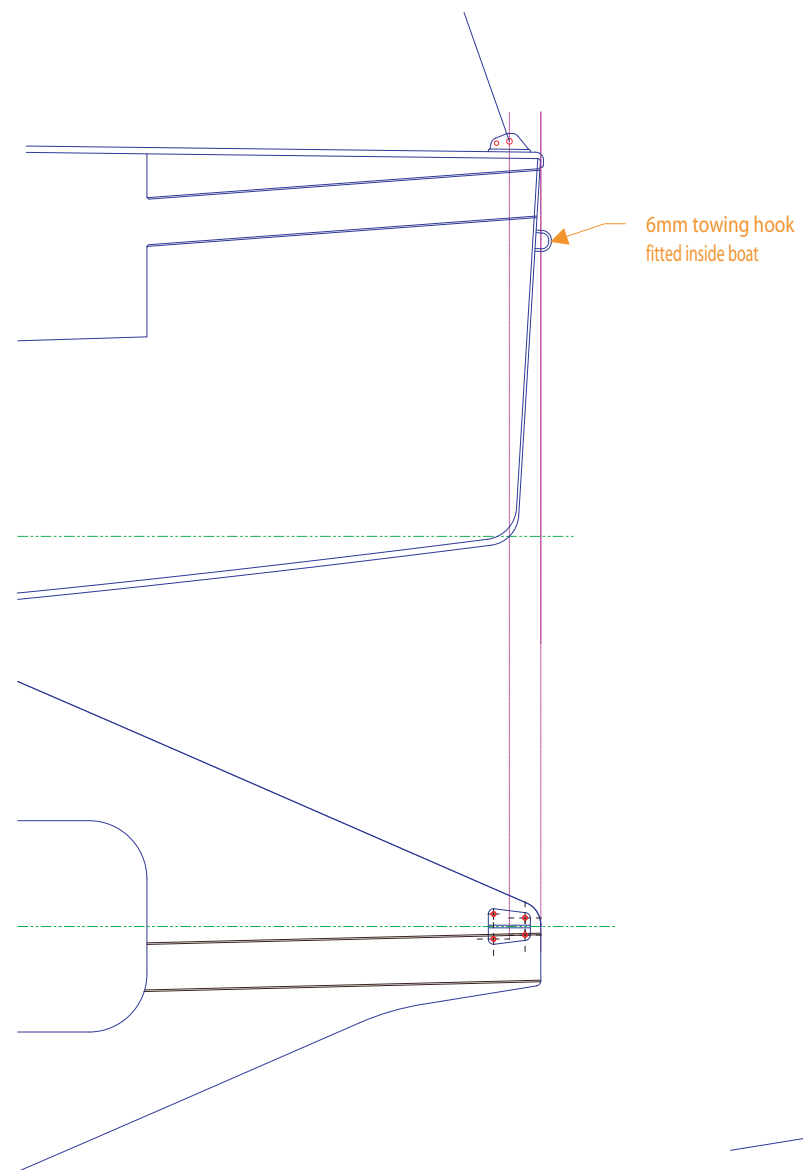
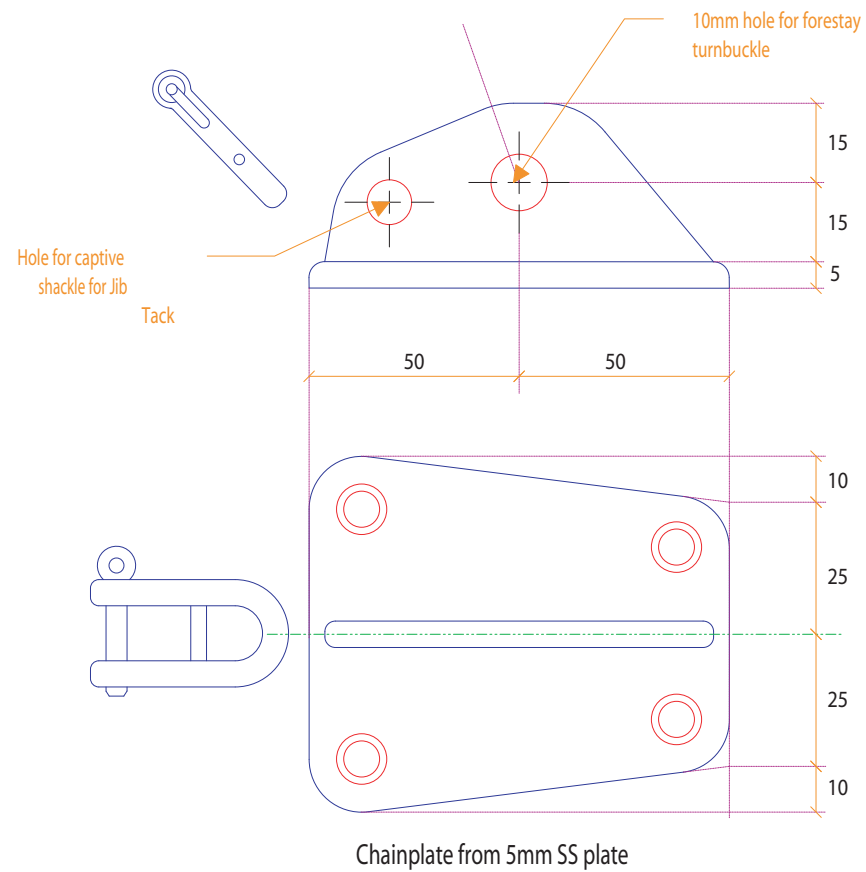
- Cut out frames and stand using cenelines and waterlines for reference
- Fit 150 x 16mm side plank into rebates at edge of planks.
- Plank plug with 40 x 16mm planks and flat panels glueing and nailing into place.
- Fair and paint to a high gloss finish
- Polish prior to taking off mould with a suitable mould release wax system

Mould manufacture

- Allpy tooling gelcoat and glass to manufacturers specification, using a slow buildup as required







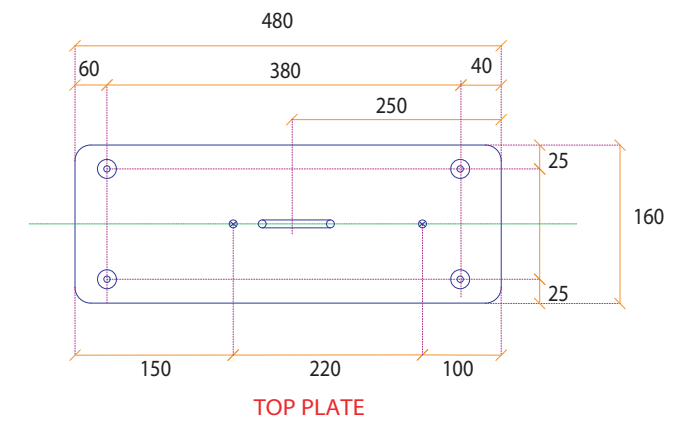
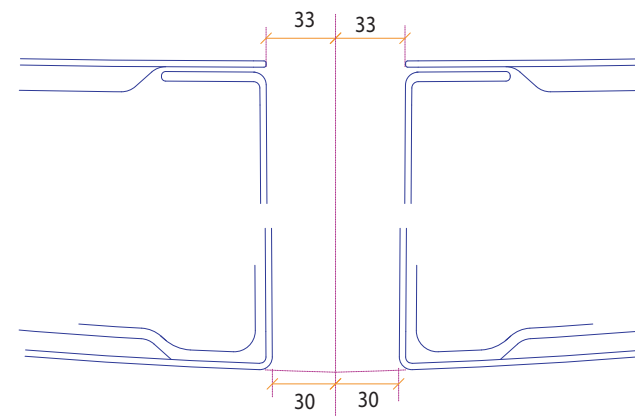
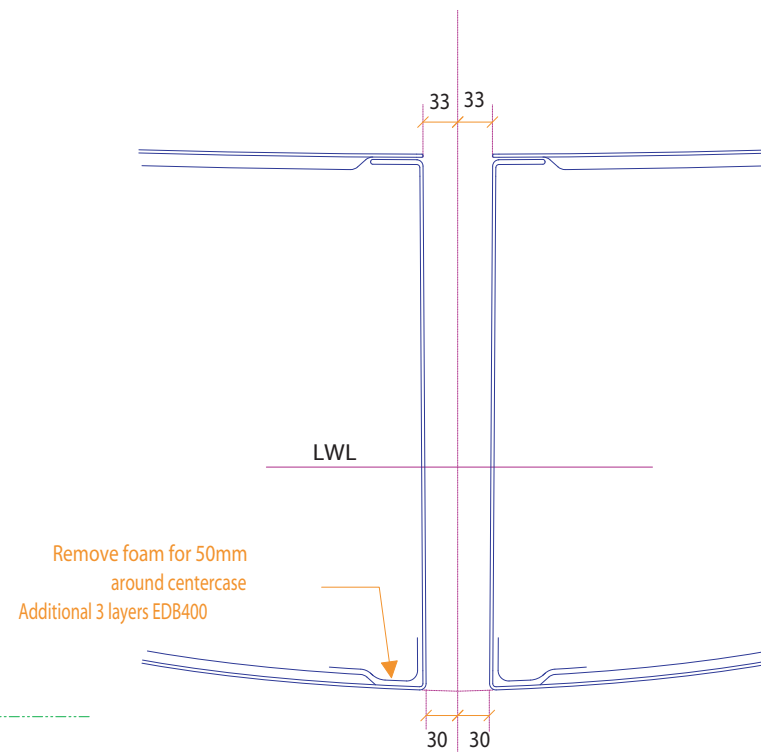
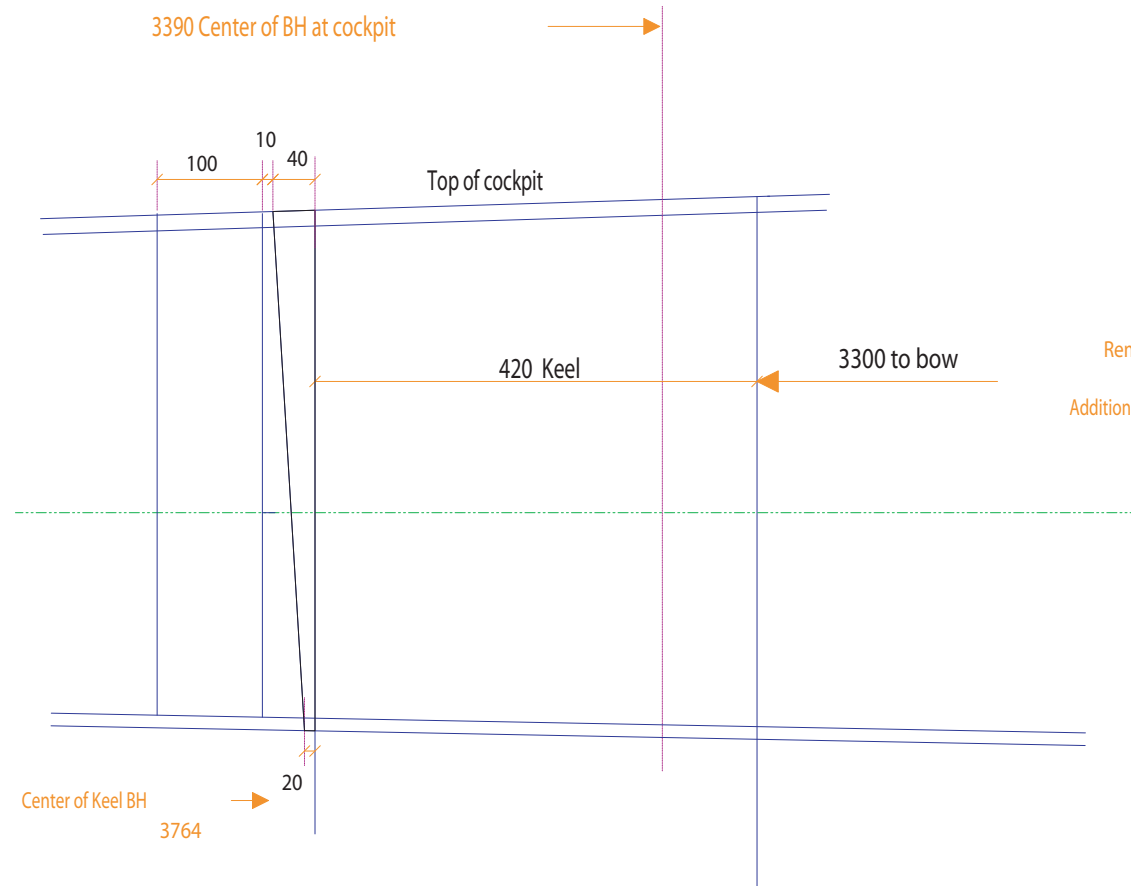
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T680 Racing Yacht

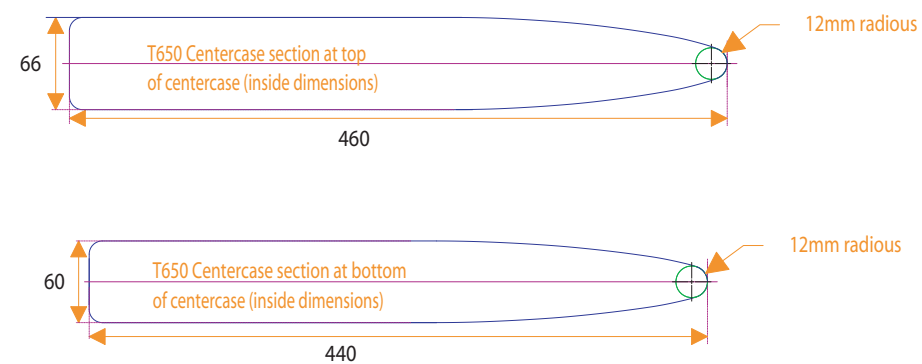
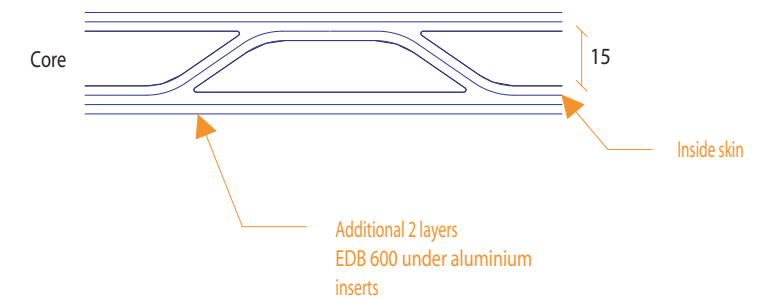
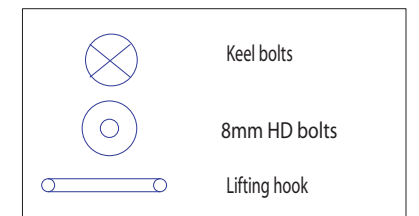
Chainplates		Dwg	Rev
		7.1	0
Scale 1:20		April 2003	

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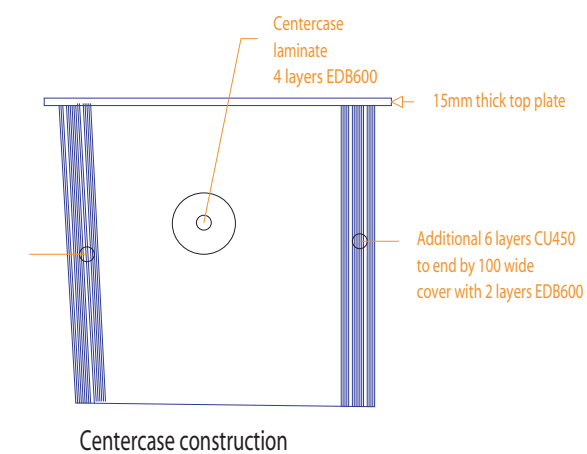


Construction 10mm thick
18 layers ETW 600
at 45/45/0

Note: Aluminium inserts
are to be placed under
the keel HD bolts to be
threaded after keel is
fitted



Additional 2 layers CU450
to end by 100 wide
cover with 2 layers EDB600

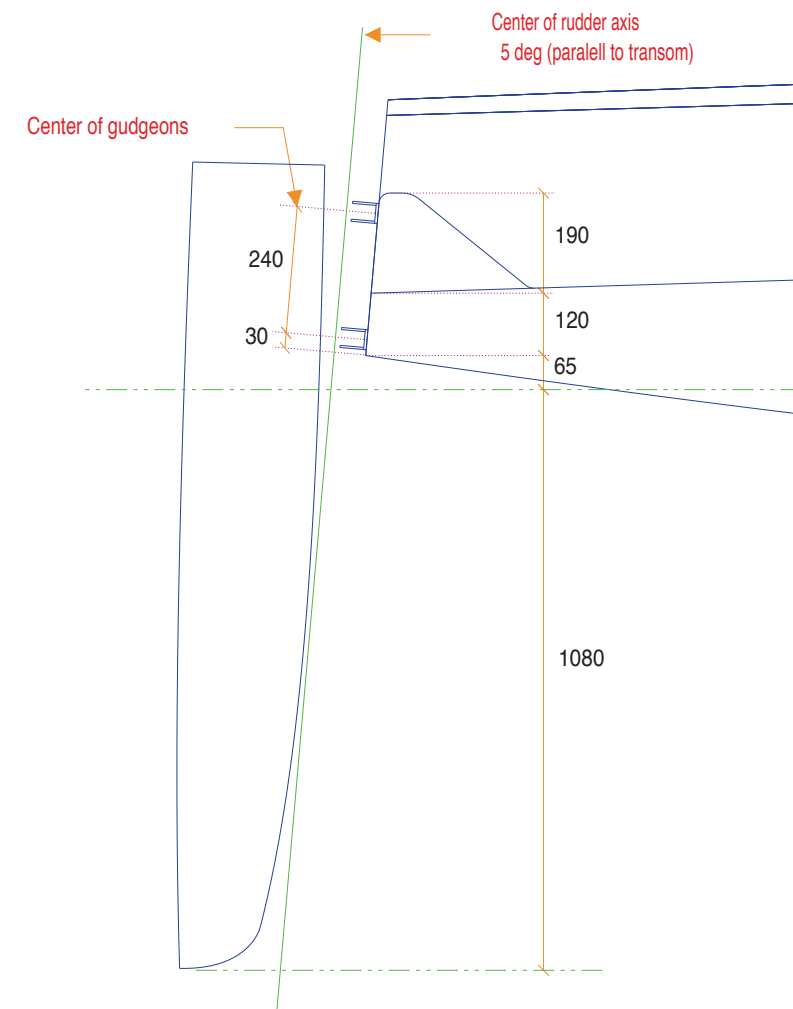
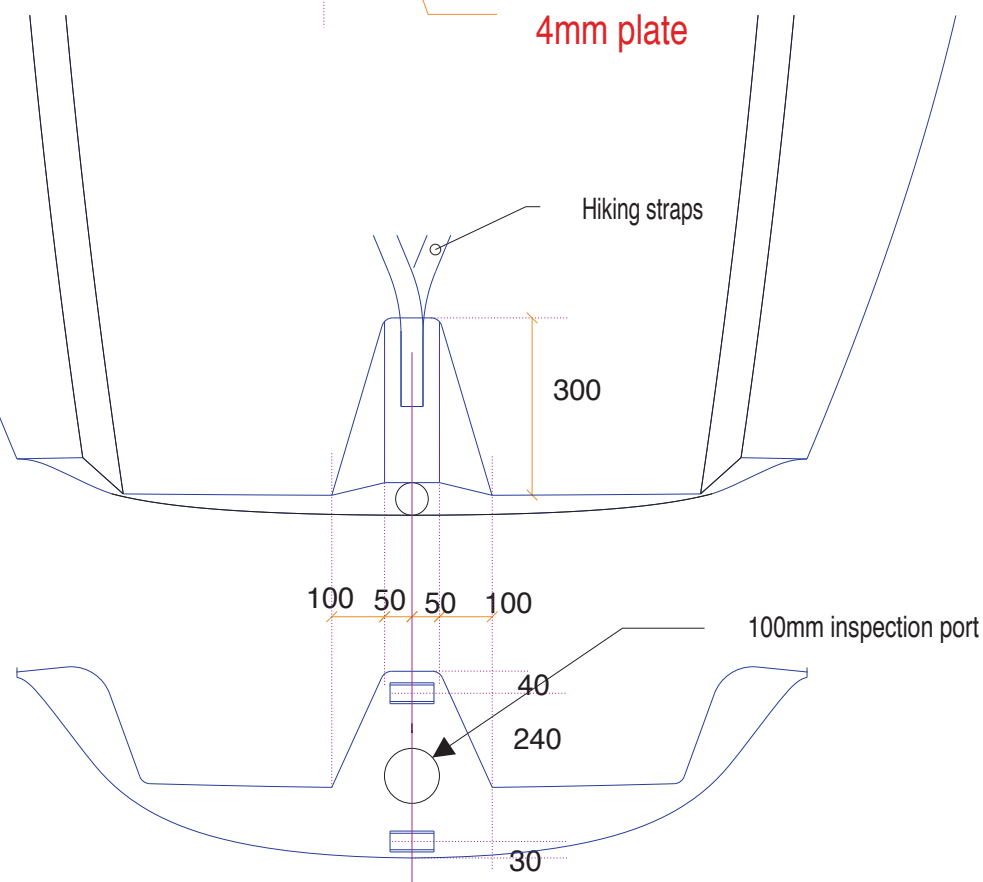
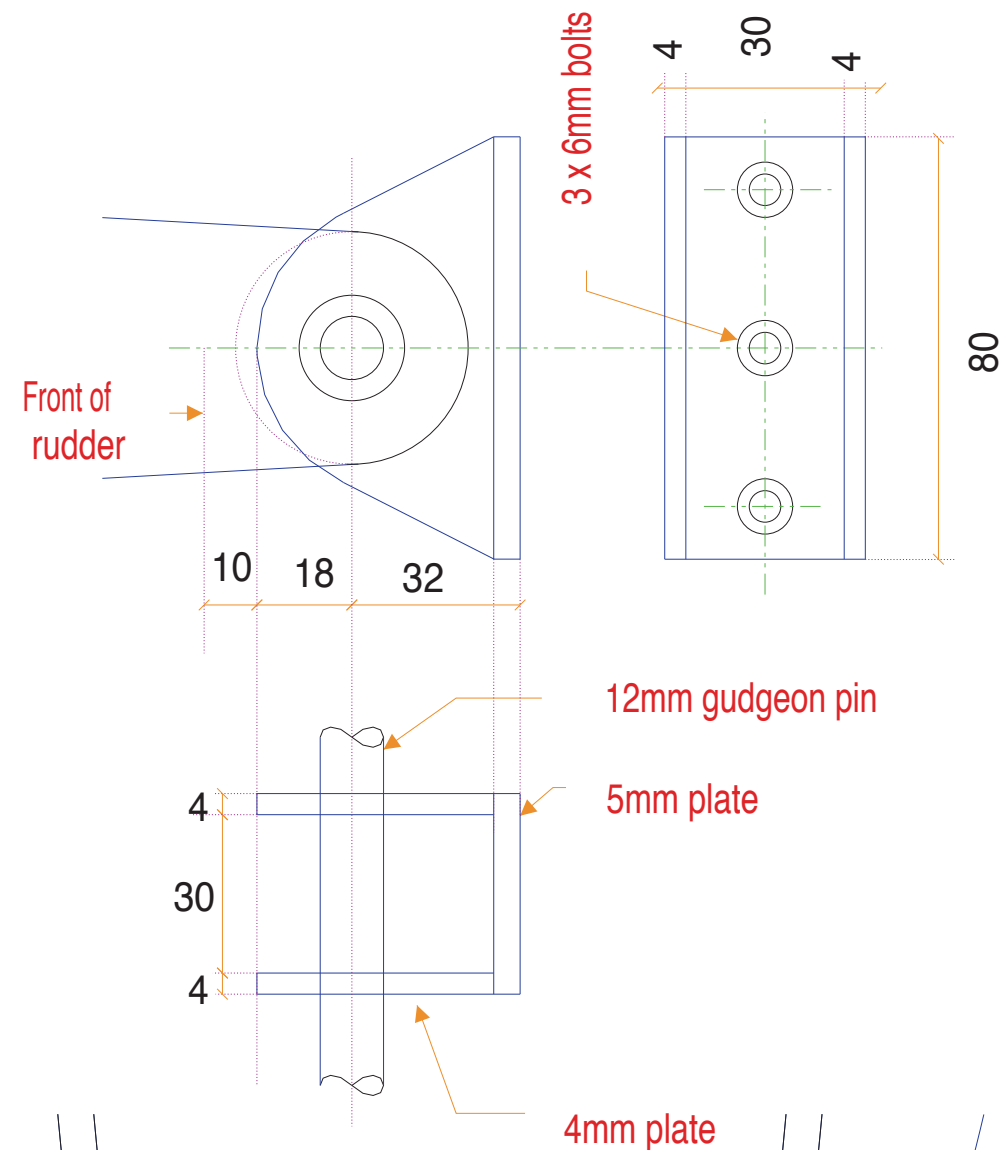


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T680 Sport Boat		
Centercase	Dwg 7.2	Rev A-23/9
Scale 1:20	September 2002	



Note!

The T650 rudder is the same sections as the T590 rudder but is 100mm longer

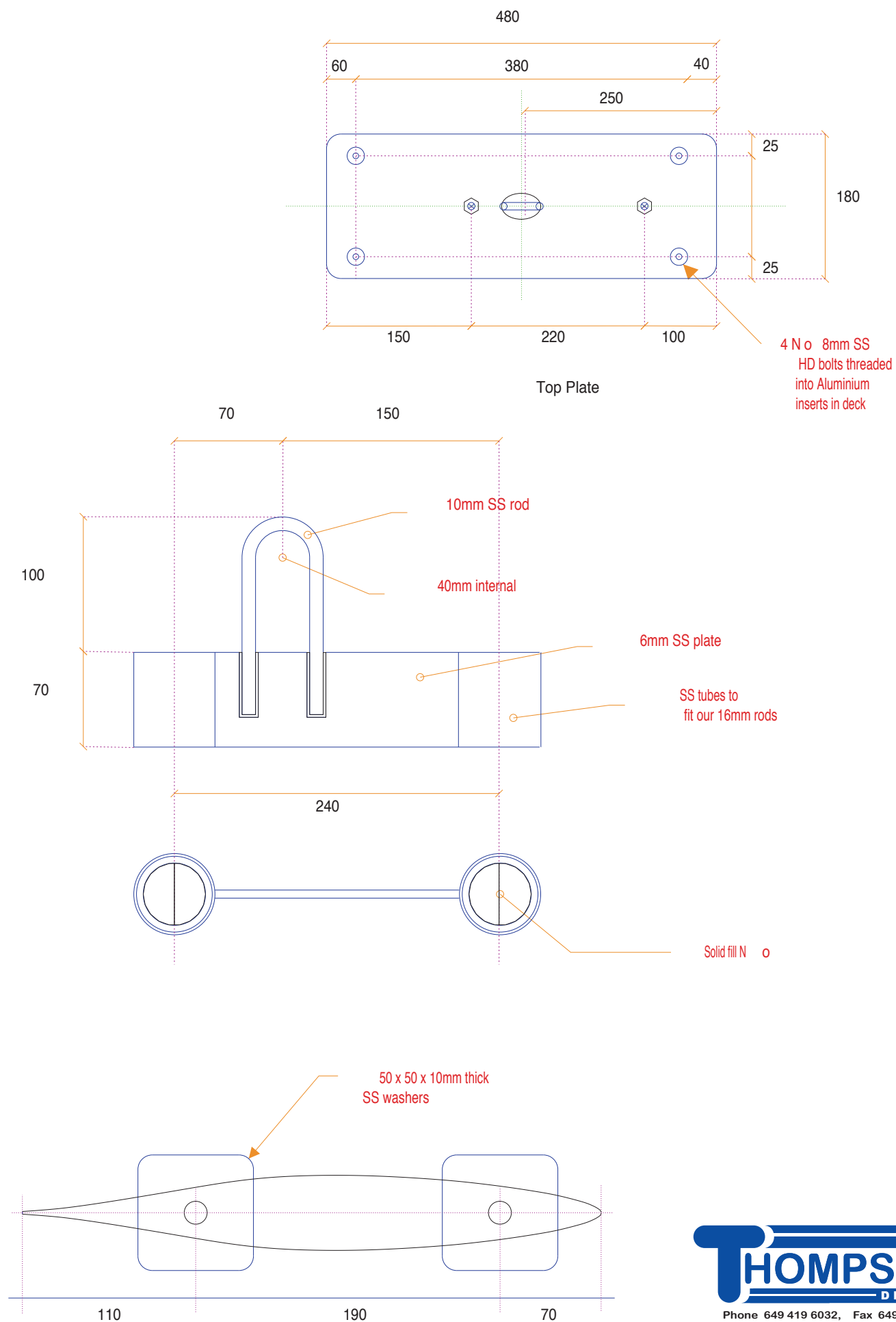
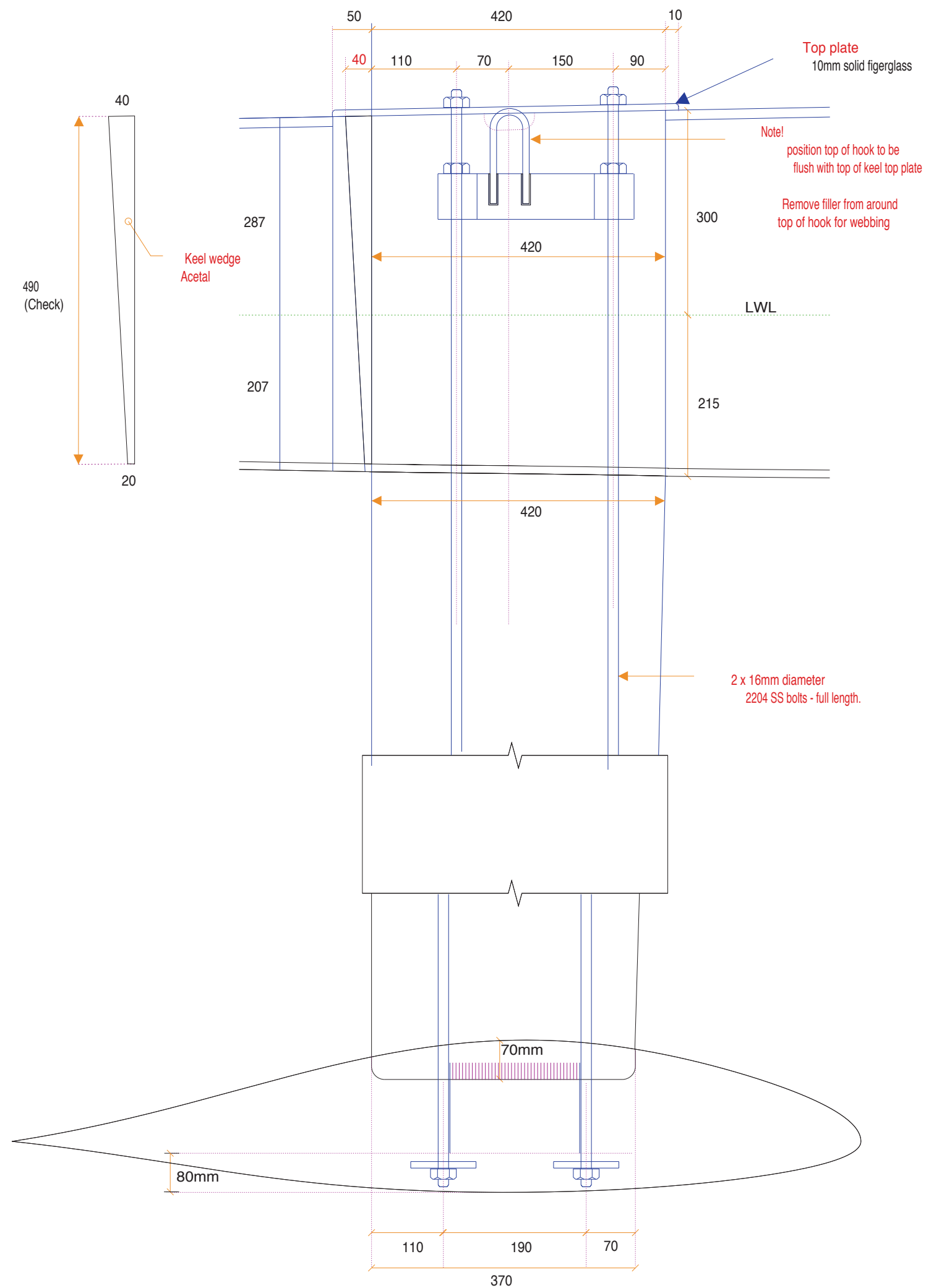
It is recommended that the moulded rudder from the T590 be used if the T590 aluminium rudder cassette is used.

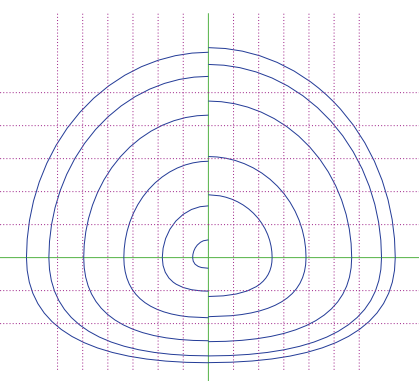
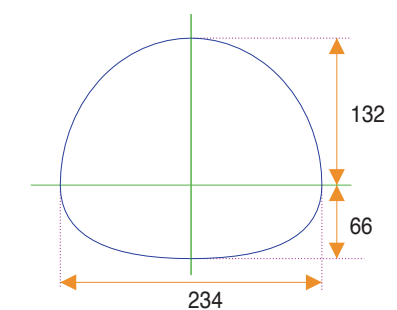
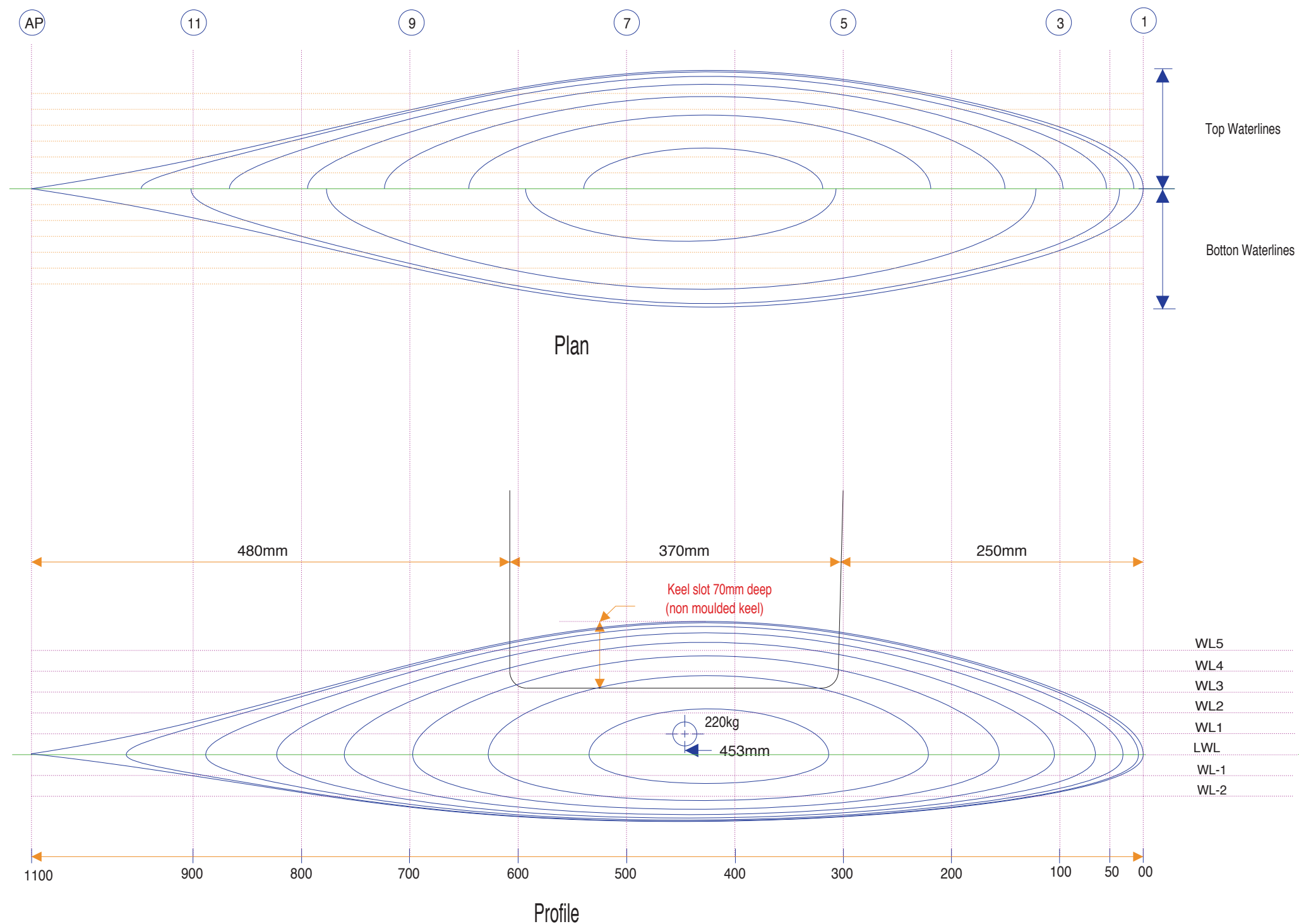
Aluminium rudder cassett

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T680	Sport Boat	
Rudder Setout	Dwg 8.0	Rev 0
Scale 1:10	September 2002	





Sections

Dimensions

Section Spacing = 100mm
Waterline Spacing = 25mm
Buttock Spacing = 18.0mm
LOA = 1100

Note

- Displacement of this bulb is 220kg after Recess from Keel slot is deducted

Total bulb - 230kg
Keel slot - 12kg
Net bulb - 220kg

Refer to full size drawing for sandwich construction profiles and sections of bulb
Construct with 6 No. x 18.0mm profile shapes each side

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T680 Sport Boat		Rev
Bulb	10.0	0
Scale 1:20	September 2002	

Sails

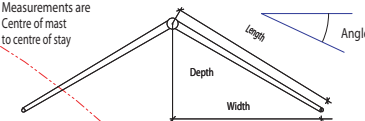
Note! refer to class rules for maximum sail dimensions

	Luff	Leach	Foot	LP	Area
Mainsail	9230	9700	3400		20.7
Jib 1	8900	8230	3050	2860	13.4
Jib 2	8800	8270	2980	2770	12.4
Jib 3	7040	6220	2440	2130	7.4
Masthead	11430	8730	7070	0 100%	71.4
Fractional	10040	6820	6500	0 90%	53.5

All sail dimensions are straight line measurements
Refer to class rules for maximum sizes

Spreaders

Measurements are
Centre of mast
to centre of stay



Datum from base of mast	Height	Length	Width	Depth	Angle	lift
Base at deck	00	1247	1070	640	30.9	—
1st spreader	2840	1228	1060	620	30.3	70
2nd spreader	5750	1070	930	530	39.7	150

Rigging Sizes

(Dyform wire)

V1 -	5.0mm
V2 -	4.0mm
V3 -	3.0mm
D1 -	4.0mm
D2 -	3.0mm
D3 -	4.0mm
Forestay -	5.0mm

I	8610
J	2650
P	9230
E	3400
Prod	2400
SPL	5050
ISPL 1	10210
ISPL 2	8660
FS - bow	60

Rolled aluminium tube
120 x 80

Taper 1800

80mm OD
Tapered carbon tube
0.9kg/meter

Sleeve joint

5800

80mm OD
carbon tube
0.9kg/meter



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T680 Racing Yacht

Sail/Rig	Sport	Qty	Rev
Scale 1:20	February 03	11.1	5/03

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