

# HEATWAVE



*sailboat designs by Keith Callaghan*

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**HEATWAVE** is a new design for 2003. She has been commissioned by Stuart Gurney, a friend from my Merlin days, as a modern replacement for the Phantom dinghy. She is thus designed for the heavier crew, though she has the flat sections and minimal keel rocker characteristic of all my designs.

***Principal Dimensions:***

*Length over all*                    4.25 metres

*Beam*                                    1.90 metres

*Hull weight*                        70kg

*Sail area*                            9.5 sq m

*Estimated PY number* 1040

*The boat is of wood/epoxy/glass composite construction, with a strip planked lower hull and ply topsides, glassed inside and out. She has a double bottom and is thus self draining. She is intended for amateur or professional construction.*

*Production boats will differ from the prototype in several respects:*

- The freeboard has been increased to give a more comfortable sitting out position, and to allow a greater overall beam (now 1.9m)*
- Buoyancy configuration has been improved to facilitate recovery after a capsize.*
- A new sail shape has been developed.*
- Other minor layout changes have been made. The hull shape is unchanged.*

Fully detailed PLANS of HEATWAVE are available. Price £87.00 (Approximately 6 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. (For each subsequent boat built to the same set of plans, the design royalty is £60)

The plans are very comprehensive and include full size frame drawings and complete dimensioned shapes for all plywood parts.

## **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.*

### **Contact Information**

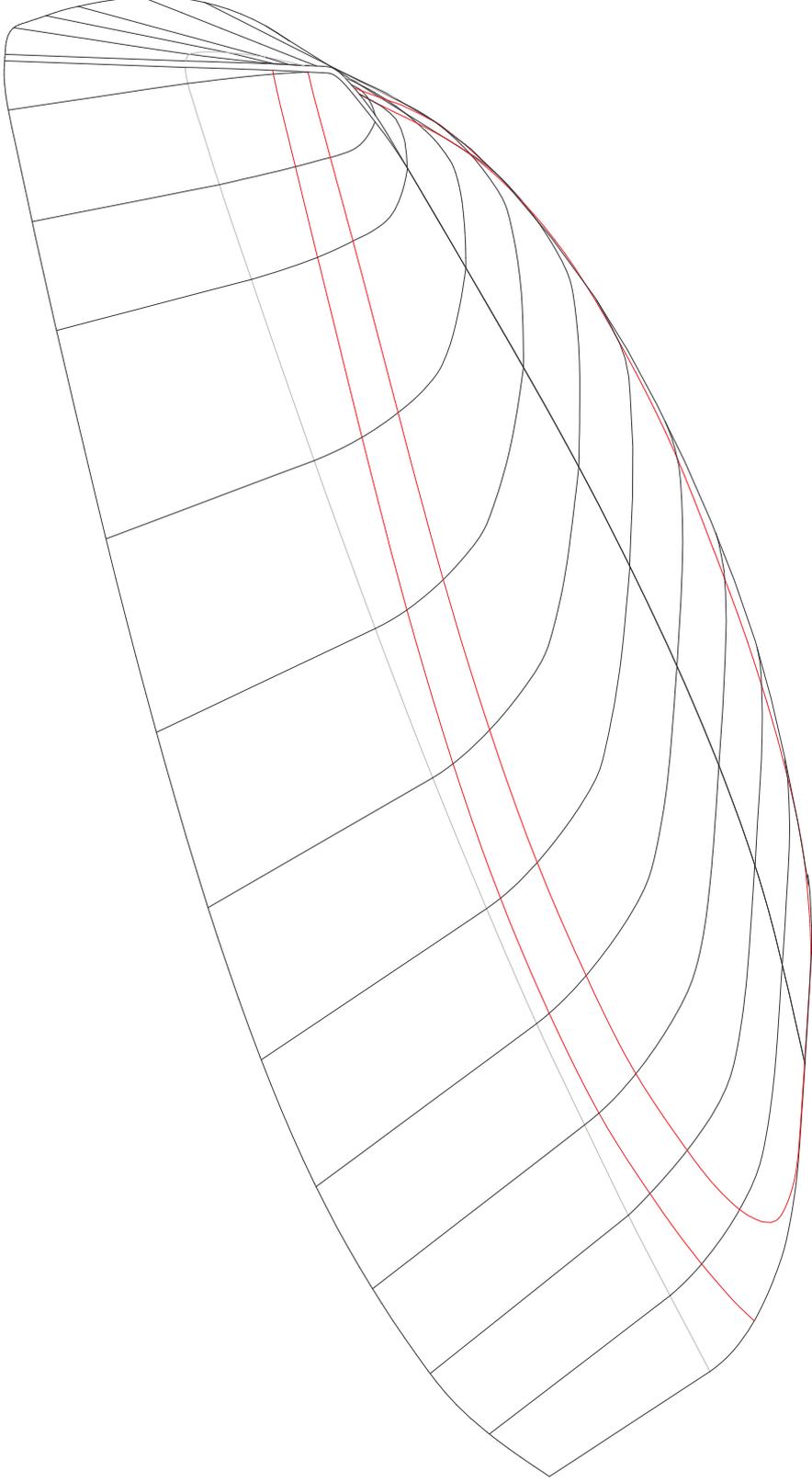
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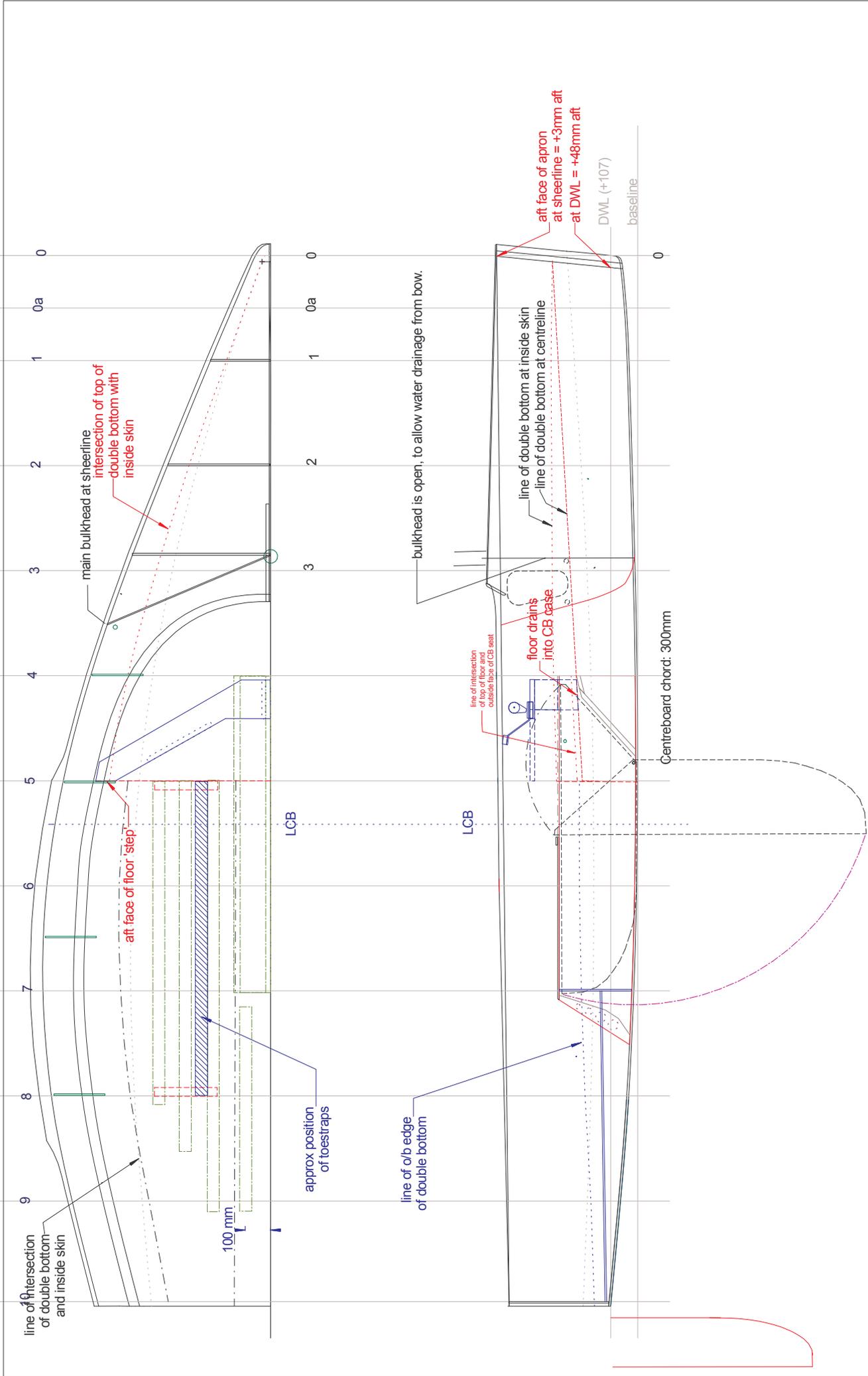


**HEATWAVE SINGLEHANDER DINGHY**

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hw005biso1.skf

31/10/2006



10

dimensions are for top of floor  
therefore outside edge must  
be bevelled to fit topsides

0,269

402, 344

822, 421

1242, 459

1662, 465

2082, 429

5

CL

0, 4

0, 144

port side

double bottom  
panel #4

CL

0, 0

1095, 22

1242, 22

1242, 144

1242, 4

2082, 0

starboard side (mirror of port side)

# Panel shapes: double bottom

## HEATWAVE

### SINGLEHANDER DINGHY

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hw0006d floor01.skf

scale 1:10  
31/10/2006

dimensions are for top of floor  
therefore outside edge must  
be bevelled to fit topsides

0, 645

420, 572

687, 504

694, 502

840, 459

1260, 327

double bottom  
panel #2

0, 128

426, 125

426, 0

1200, 0

1207, 0

double bottom  
panel #1

1680, 177

2075, 33

2075, 0

5

4

3

2

1

0a

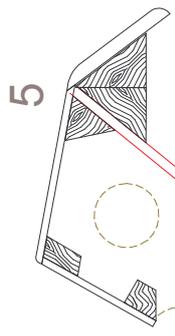
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main  
bulkhead

floor stringers 6mm x 40mm

6mm ply reinforcement  
on fwd face

- Recommended sequence of assembly:
1. fit centreboard case.
  2. fit sub-floor frames.
  3. trial fit floor, then remove it.
  4. fit deck knees; glued to frames.
  5. cut slots in floor for knees, and glue in place.



6mm ply stringer  
on aft face to take floor

additional reinforcement here,  
for toestrap anchorage.

longitudinal stringer

DWL

baseline

Section at Station 5 (+2100)

**HEATWAVE SINGLEHANDER DINGHY**

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31/10/2006 hw0006d sta5.skf scale 1:5

# HEATWAVE Dinghy

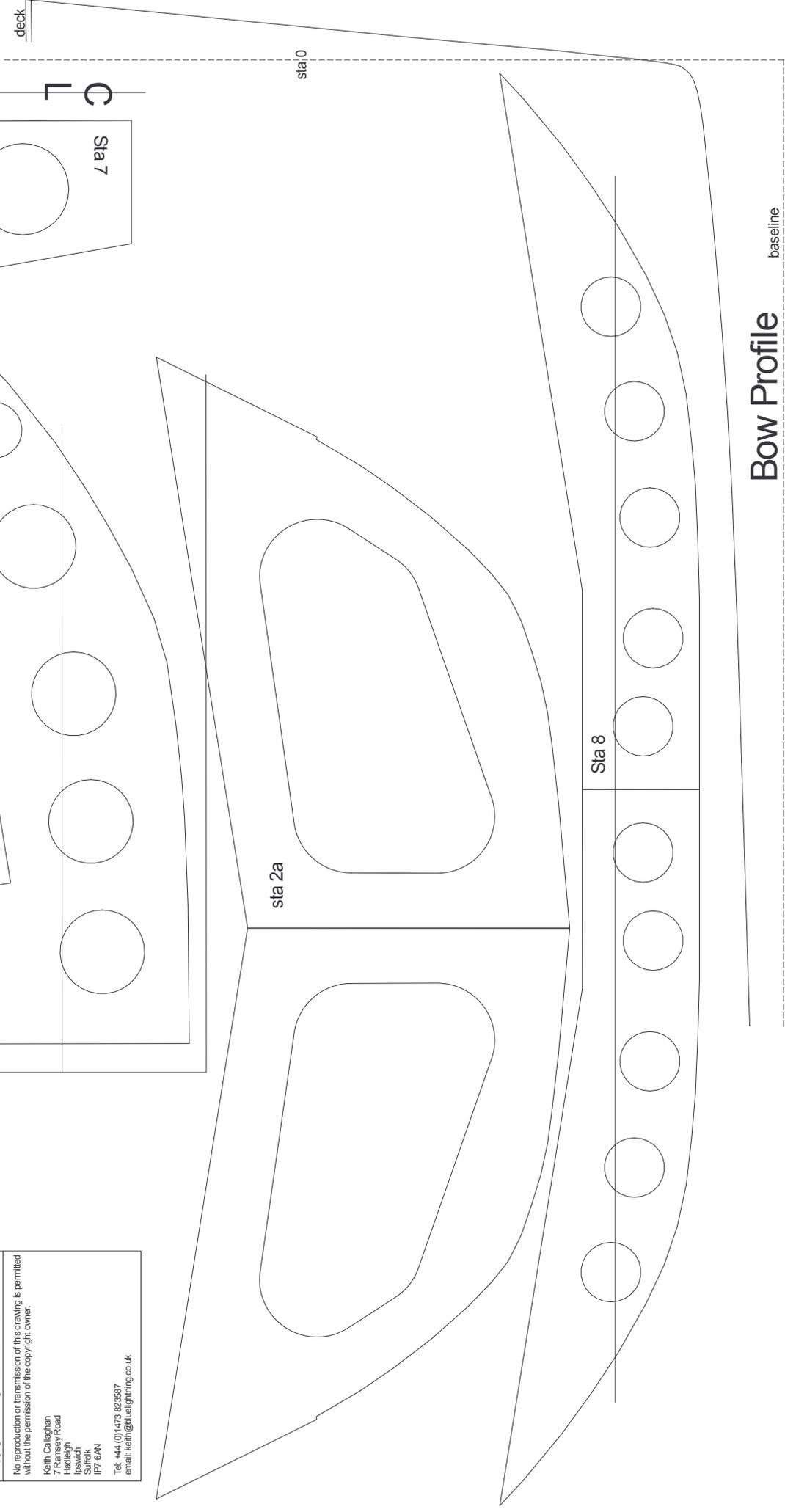
ProSurf hull model ref: HW0006d  
Drawing ref: HW0006d subframes02\_A0.dwg  
Date printed: 31/10/2006

## Subframes (sheet 2 of 2) and bow profile

### Full size templates

Note that these templates do not include cutouts for limber holes or for any longitudinal stringers etc.

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## Bow Profile

baseline

