Keel building

The following drawings shows the main measures of the four parts of keel. To assemble the parts it is necessary to build a simple rig as the figure.

Bow part of keel.

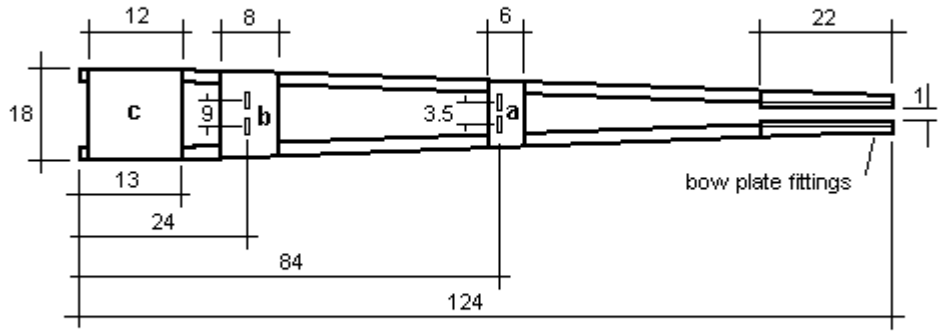
Place two bend 124 cm tubes in the rig, doing the tips agree the transversal marks. Place the terminal plate "**c**" with one rivet per tube. Verify the exact position again and put remain rivets.

RIG TO ASSEMBLE THE FRONT AND AFT PARTS OF KEEL



Measures in centimeters.
Drawing not to scale.

KEEL FORE PART (BOW)



Tubes: 6063-T6 alloy 3/4" dia. x 0.059" thick (1.5 mm)
Plates: 5052 alloy 0.059" thick (1.5 mm)

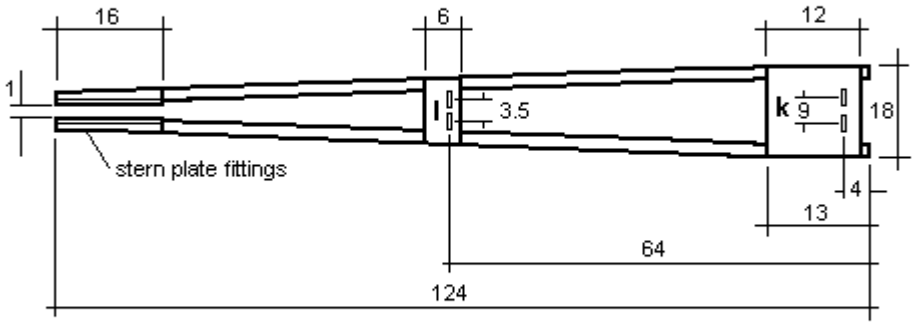
Measures in centimeters.
Drawing no to scale.

Proceed alike with plates "**a**" and "**b**" and bow plate fittings.

Stern part of keel.

Follow the same procedure as bow and put "**k**", "**l**" and stern plate fittings.

KEEL AFT PART



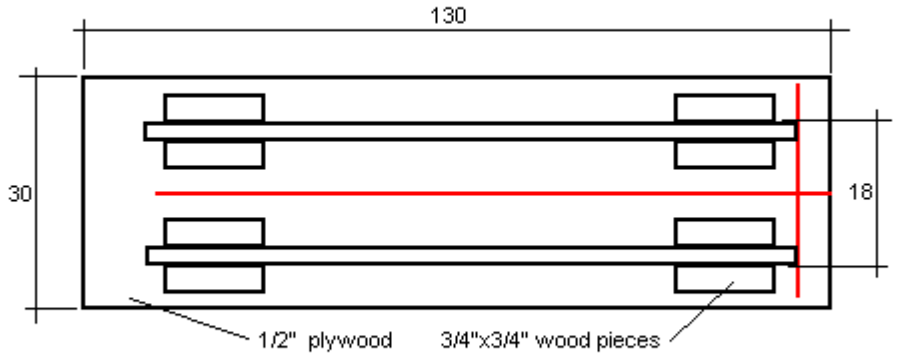
Tubes: 6063-T6 alloy 3/4" dia. x 0.059" thick
Plates: 5052 alloy 0.059" thick (1.5 mm)

Measures in centimeters.
Drawing not to scale

Fore part of center keel.

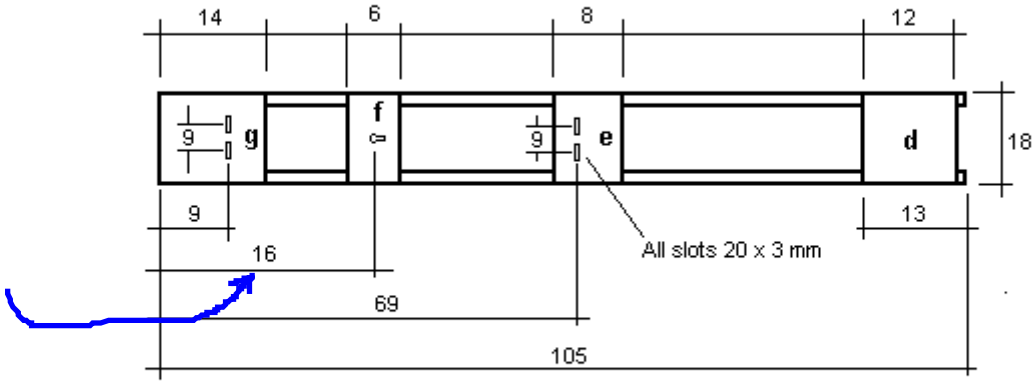
Put two 3/4" x 105 cm tubes on the rig doing the tips agree with transversal marks. Then place the terminal plate "**d**" on tubes at exact measure from tip and rivet it in place, with one rivet in each tube. Verify the exact position of tubes on rig and put the remain rivets. Proceeds alike with plates "**e**", "**f**" and "**g**".

KEEL RIG CENTER PART



Measures in centimeters
Drawing not to scale.

KEEL MIDDLE FORE PART



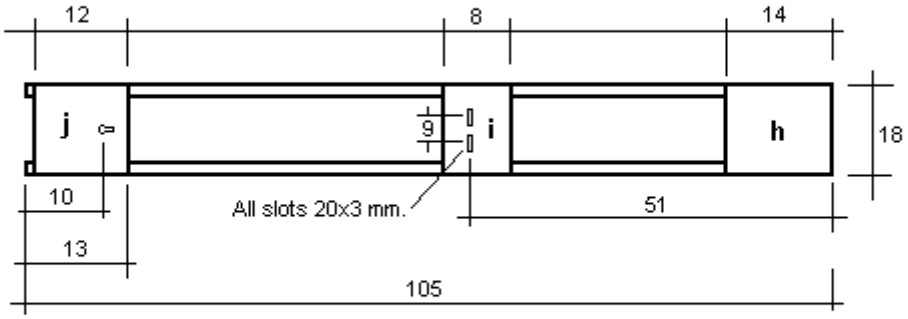
Tubes: 6063-T6 alloy 3/4" dia. x 0.059" thick (1.5 mm)
Plates: 5052 alloy 0.059" thick (1.5 mm)

Measures in centimeters
Drawing not to scale

Aft part of center keel.

The procedure is the same as the front part.

KEEL MIDDLE AFT PART

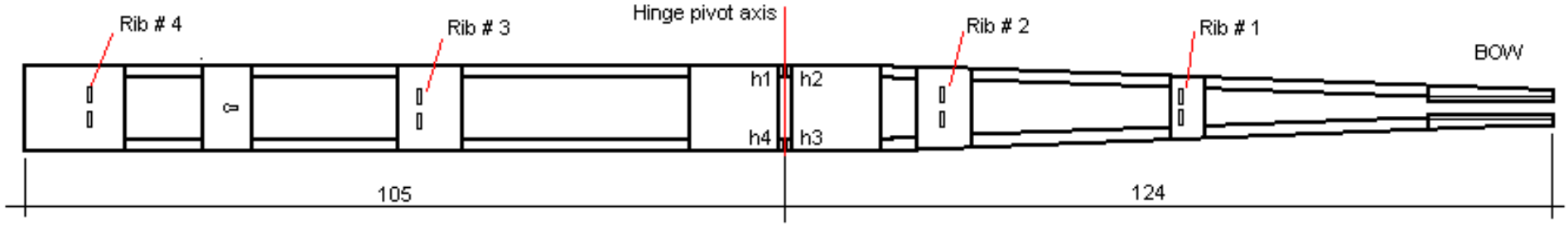


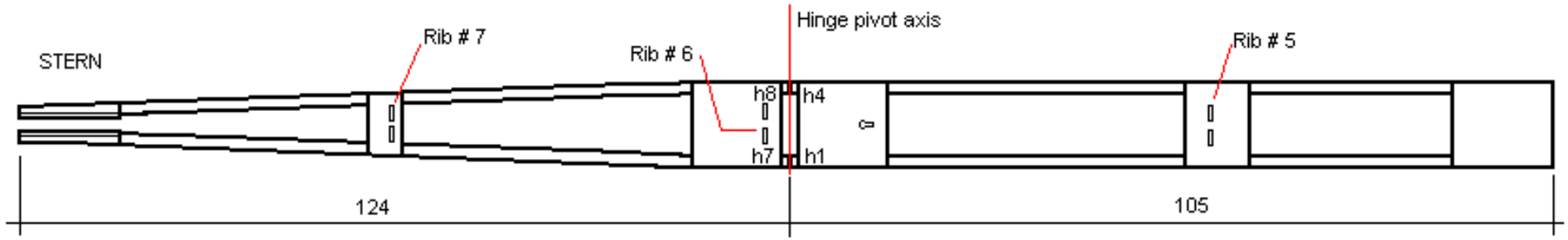
Tubes: 6063-T6 alloy 3/4" dia. x 0.059" thick (1.5 mm)
Plates: 5052 alloy 0.059" thick (1.5 mm)

Measures in cm
Drawing not to scale

IMPORTANT NOTICE: Don't put rivets where the hinges must be placed because these rivets will fix the hinges and plates to the tubes. See entire keel drawing to see hinge positions.

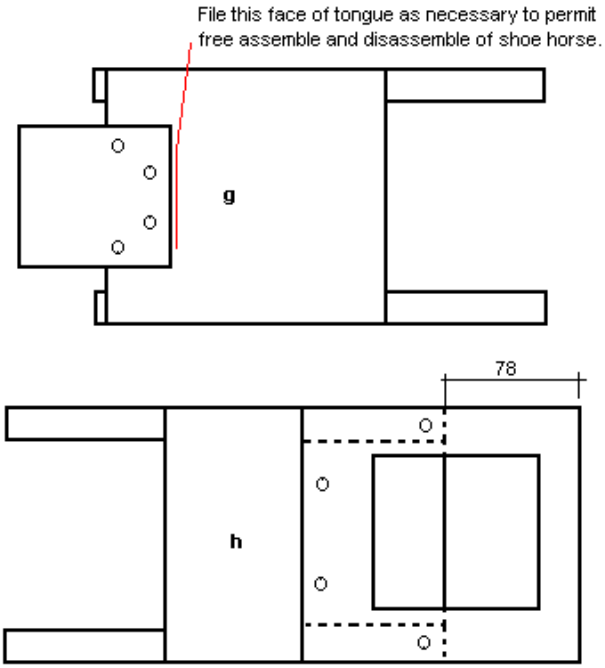
ENTIRE KEEL


Rib # 4
Rib # 3
Hinge pivot axis
Rib # 2
Rib # 1
BOW
h1
h2
h4
h3
105
124

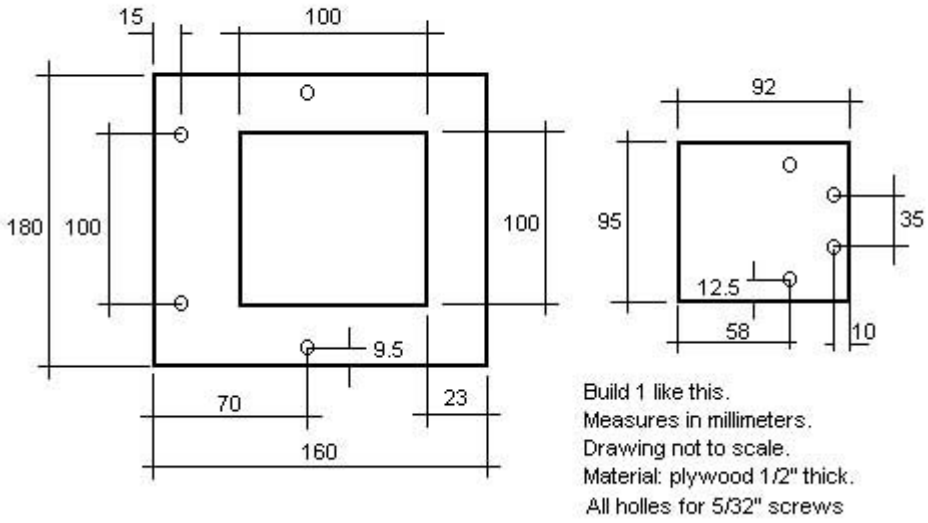

STERN
Rib # 7
Rib # 6
Hinge pivot axis
Rib # 5
h8
h4
h7
h1
124
105

Shoe horse mounting.

The shoe horse have 2 parts, the tongue and the clamp. The tongue must be placed on the "**g**" plate of keel and the clamp on the "**h**" plate. Mount first the clamp, then put fore and aft parts of keel together in the exact position and then put the tongue and perform the holes of it.



KEEL SHOEHORSE



Build 1 like this.
Measures in millimeters.
Drawing not to scale.
Material: plywood 1/2" thick.
All holles for 5/32" screws