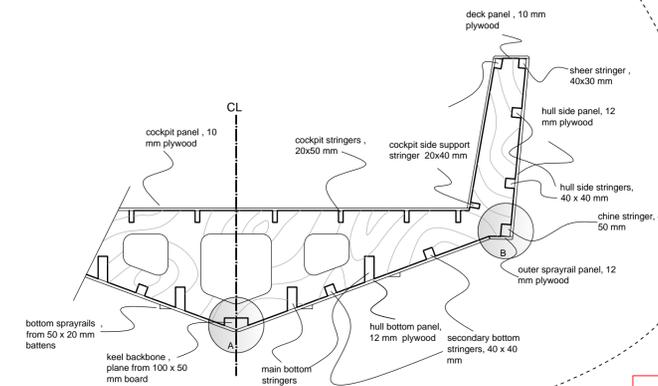
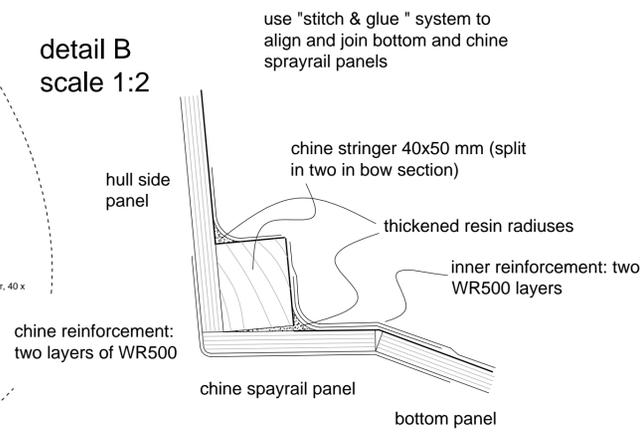


Typical section
scale 1:15



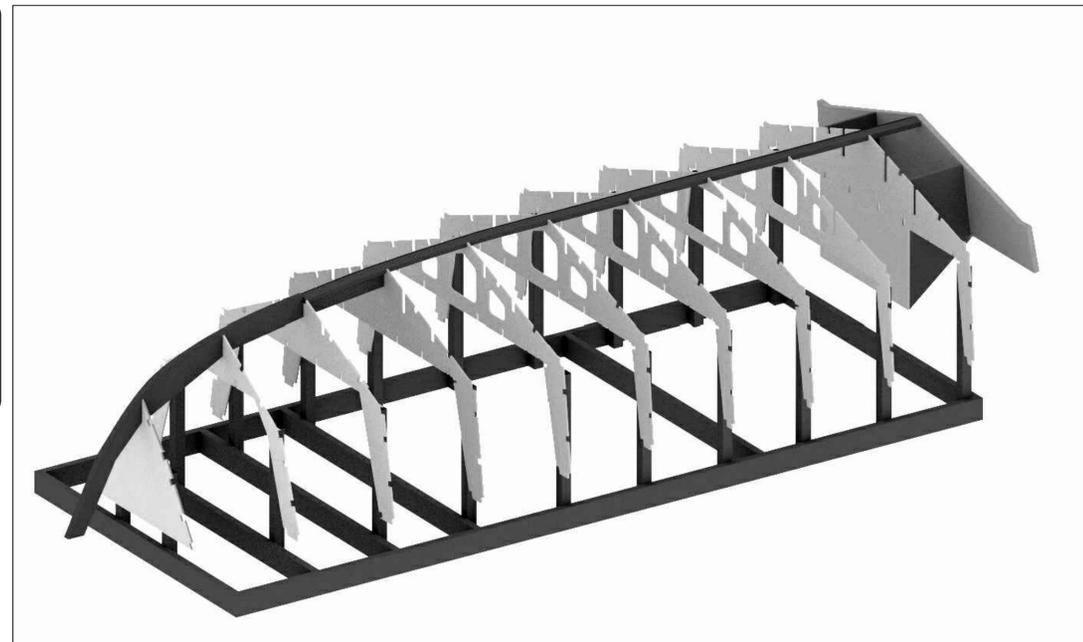
detail B
scale 1:2



use "stitch & glue" system to align and join bottom and chine sprayrail panels

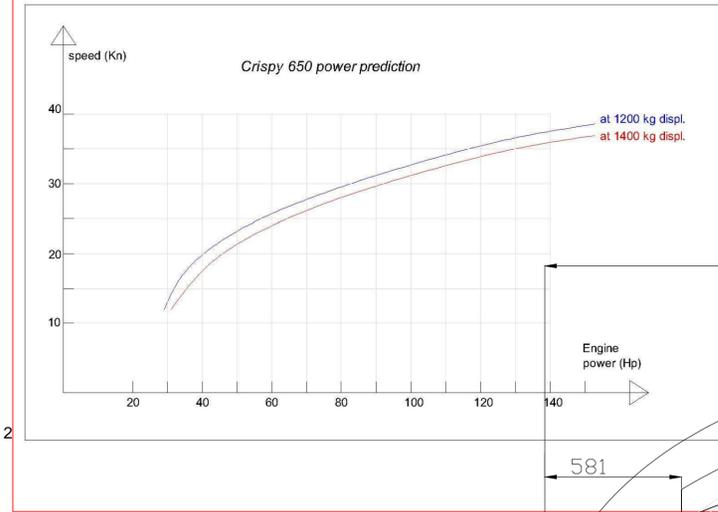
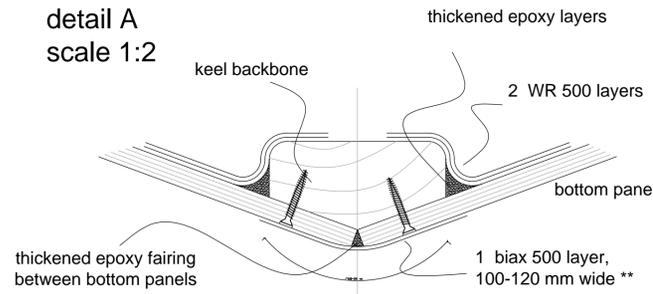
Crispy 650
main features:

- overall length: approx. 7,2 m
- hull length: 6,53 m
- waterline length : 5,67m
- maximum beam: 2,51 m
- hull draft: 0,35 m
- draft with engine: approx. 0,67 m
- design displacement: 1600 kg
- hull displacement: approx. 740 kg (no engine)
- total hull height: 1,68 m (with console)
- powerplant: single max 120 HP single outboard or max 2 x 80 HP double outboard
- fuel tank: approx. 110 litres



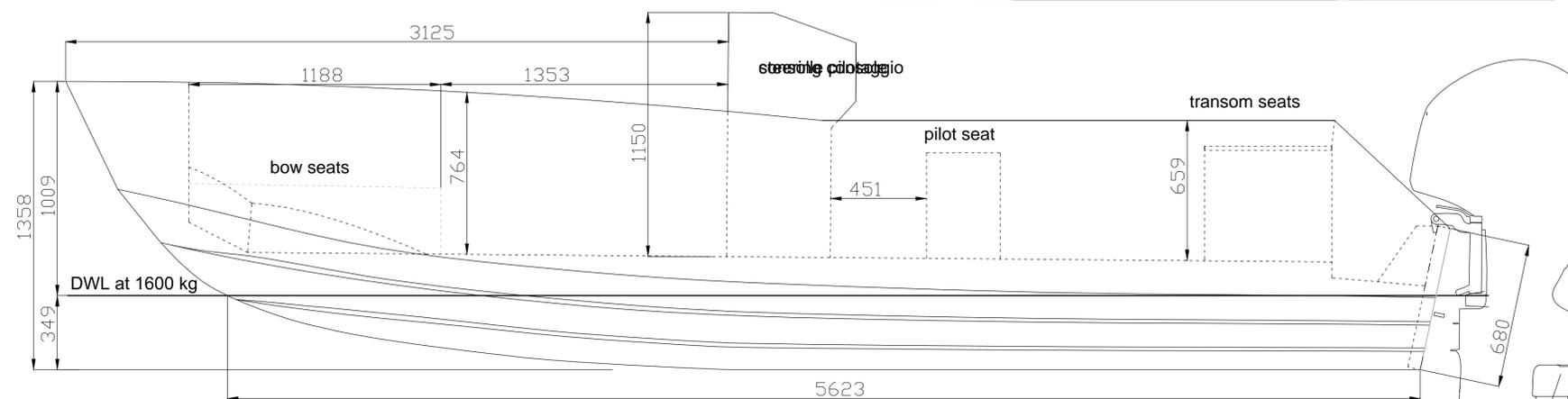
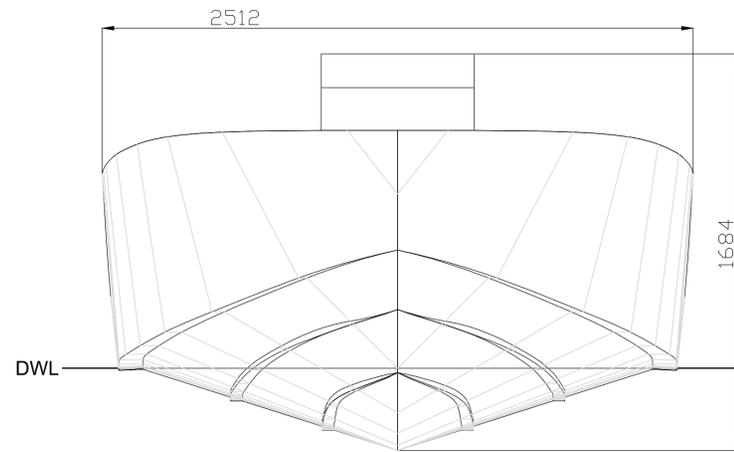
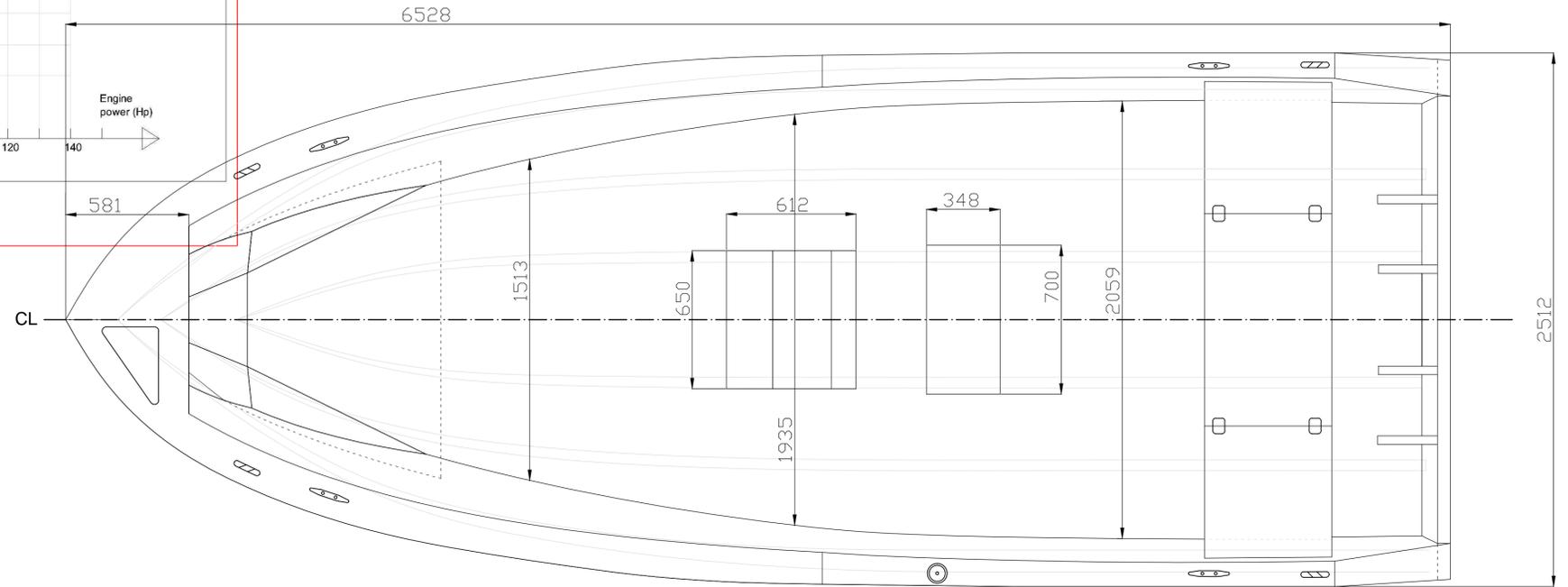
3d view of assembly scaffold with transom, bulkheads and keel backbone set in place; once that you put in place the stempost, fasten it on the floor so the it won't be bent from one side to another when you put in place the stringers; if you find that vertical elements are weak and bulkheads tends to move, brace them with other screwed or nailed boards and battens ; boat must stay on assembly scaffold for the whole hull bottom and topsides construction process; hull rotation and dismantling of scaffold will be made after hull fairing and painting

detail A
scale 1:2



NOTES on structure

- bulkheads: the hull structure is made di 10 bulkhead and a transom , all have to be cut from 12 mm marine grade plywood panels, apart form transom (60 mm thickness , 2 layers of plywood and a core of laminated solid wood)
- keel backbone: is basically made by a plywood stempost (can be done in solid wood too) and a 120x40 plank as backbone, glued together and on the bulkheads ,
- stringers: bulkheads are linked by an array of stringers on bottom, chine stringer , sides, cockpit , all made by solid wood battens glued in bulkhead notches
- glass fibers stiffening works : several structural joints have to be reinforced with "liquid joinery" (thickened epoxy resin radiuses), and/or layers of glass fabric (WR : wave roven, or biaxial) laminated with epoxy resin
- steering console support beams: the steering console has to be bolted on the deck on properly placed solid wood beams
- hull planking: marine grade okumè plywood, 12 mm on bottom, 12 mm on topsides, planking must be split in two overlapping layers of 6 mm on the bow section to take care of high curvature areas; panels are single curvature so hull can be planked with full sized panels , that we will join using scarf joints made on board
- plywood edges: all the edges have to be covered with a layer of glass tape or with a solid wood batten, protect them only with liquid resin layers won't guarantee from rotting
- engine bolting: engine lean on an alloy plate on external transom face, on the internal face place bolts with a 60x60 square alloy counterplates.



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Cristian Pilo
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Crispy 650
study plans
Drawing n. STP1

SCALE 1:15

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