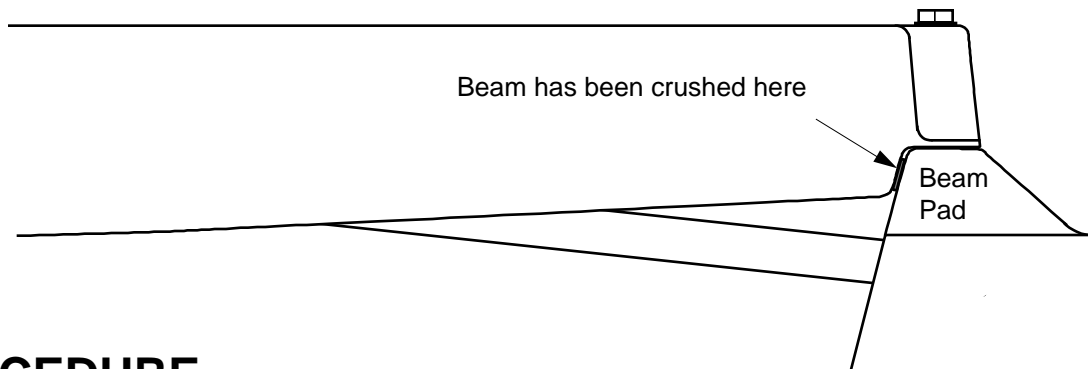
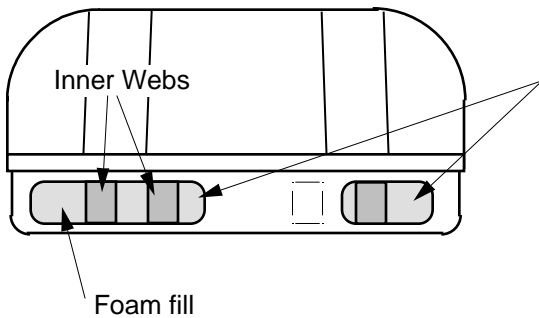


F-31 BEAM END REPAIR PROCEDURE

For use if beam end has been crushed against beam pads in hull/deck which can occur as a result of a fore and aft collision on a float bow.

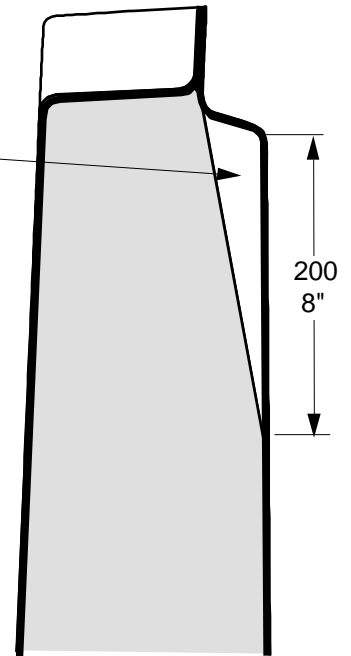


PROCEDURE

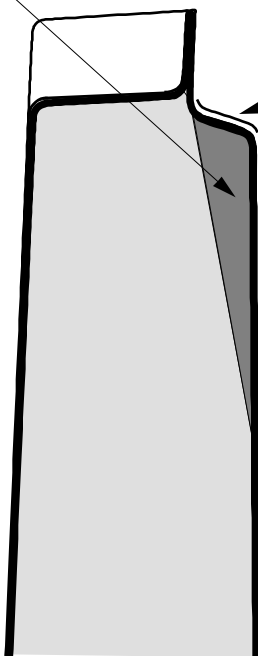


1. Remove plastic compression pads and cut out damaged area/areas Both sides if necessary.

2. Dig out inner foam to depth shown and at least 1/2" per side wider than cutout. Thoroughly sand inside of beam bottom and sides.



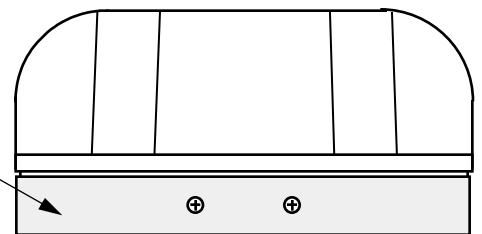
3. Fill with structural putty mixture. Use an epoxy + high density filler mixture, finishing flush with beam end.



4. Glass over end of beam (two layers 8oz/270gm cloth). Refit Compression pad.

For additional strength, existing plastic compression pad can be replaced with a full width fiberglass rectangular bar, epoxy glued in place.

Important: Compression pads must bear evenly against Hull Beam Pads when float is extended, or have a 1/32" gap at the most.



ADDITIONAL HARDWOOD COMPRESSION BLOCKS

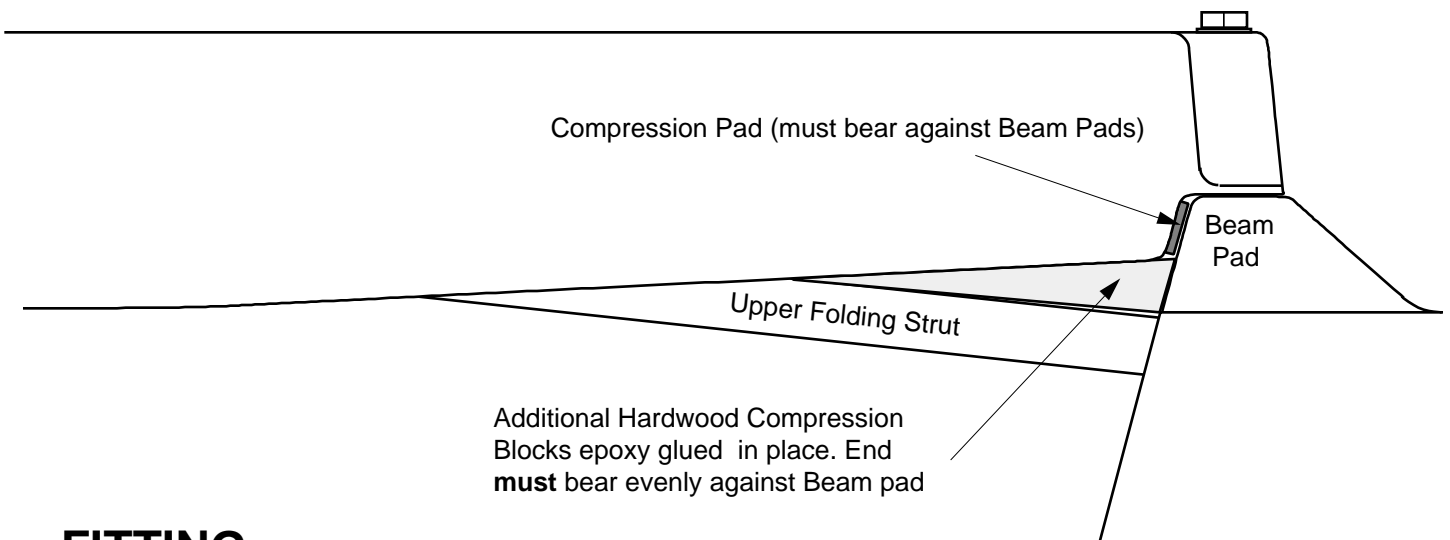
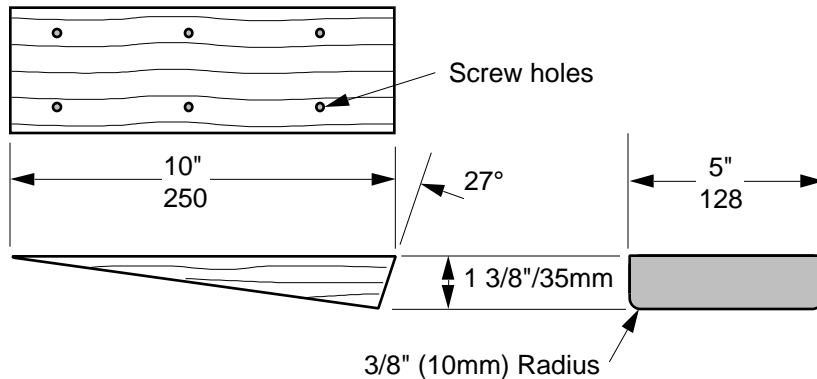
It is important that all inwards compression loads in beam from normal sailing are transferred into hull via the Beam Pads, and not via Upper Folding Struts. If beam end damage has been severe, and doubts exist about viability of repair, then strength can be considerably increased by adding additional Hardwood Compression Blocks under beam as detailed. If done correctly, these pads can take all normal sailing inward compression loads on their own.

Hardwood Compression Blocks

Two per beam from hardwood, **min density 40lbs/cu ft. (680kg/cu.m).**

Grain to run as shown

Glass over with two layers
270gm/8oz cloth & epoxy resin.



FITTING

Fully extend floats with shrouds being tensioned just enough to take weight of floats. Beam bolts are then tightened.

Position hardwood blocks, **flush with beam sides**. Hold firmly & evenly against Beam Pads. Drill six #10 (4mm) screw holes into beam bottom. Mark position.

Sand gluing area thoroughly (important). Screw & epoxy glue blocks in position, checking that they still bear evenly against Beam Pads. Gaps along beam edges can be filled. The gap between blocks and compression pads can also be filled to ensure bearing area is as large as possible.

Check beams fold normally - if Compression Blocks or pads are bearing too tight against hull Beam Pads, they may have to be sanded back slightly to allow easy folding.

