

2020

SAILSetc

PRODUCT INFORMATION

370-IOM, 370-M, 370LX

Fin - 370-M suitable for Marblehead & Ten Rater
Fin - 370-IOM suitable for One Metre
370LX leading edge fillet
also useful for other classes

GENERAL

- These fins are supplied finished to section – edges fully finished.

CUTTING CARBON

- Always wear a mask when cutting and abrading carbon fibres.
- Working with abrasive paper wetted with water will speed the process but will make it harder to see what is happening.
- Clear up the work area carefully afterwards. It is often better to use a wet rag to mop up carbon dust than to use a vacuum cleaner or brush.

INSTRUCTIONS

- 1 Make a cardboard or 3 mm plywood mock-up of the fin that fits the box as you want it and which is the required size and position.
- 2 Transfer that profile shape to the fin moulding.
- 3 Cut the fin to shape and abrade the edges to the finished profile.
- 4 Adjust it to fit the box and hull as required.
- 5 Drill a 1.6 mm hole through the fin just below the top. Drill two 1.6 mm holes through the fin, one near the leading edge, one near the trailing edge and both inside the box just above the hull bottom.
- 6 Tap these three holes M2.
- 7 Put M2 csk head x 10 mm long screws (or 8 mm for our IOM box) in the holes and adjust them so that the fin is in line with the hull in all senses. If you don't have an M2 tap use a 1.8 mm drill and 'self tap' the screws into place.
- 8 Wax the inside of the fin box and the hull all around the box.
- 9 Abrade the fin each side for 10 mm above the bottom of the hull.

- 10 Use masking tape to mask the fin on both sides above the abraded areas.
- 11 Clean abraded areas with solvent.
- 12 Wax (Simoniz is excellent, furniture waxes are OK) the inside of the fin box, the fin above the masking tape and the surface of the hull around the the fin box.
- 13 Put the fin in the box and put thickened filler into the gap using only enough to penetrate about 10 mm up the side of the fin. The polyester wood fillers are excellent for this purpose.
- 14 Leave to cure thoroughly and remove the fin from the box.
- 15 Add more filler as required to make the filler evenly shaped.
- 16 Put a spot of cyanoglue on the upper screw to lock it in place.
- 17-19 spare
- 20 The leading edge root extension moulding can be added to the leading edge of the fin once the fin has been fitted to the hull.
- 21 Shape the top of the leading edge root extension so that it fits correctly against the hull surface.
- 22 Abrade the inside of the leading edge root extension where it will be bonded to the fin. Abrade also the part of the fin that the fillet will bond onto. Clean abraded areas with solvent.
- 23 Wax the inside of the fin box, the fin above the line where it penetrates the hull and the surface of the hull around the leading edge of the fin box. Fit the fin to the hull. Take care not to get wax on the area of the fin where the leading edge root extension will be bonded.
- 24 Mix a small amount of epoxy resin and thicken it with micro balloons and silica. Bond the leading edge root extension to the fin taking care to align it with the fin/hull correctly. Do not rely on the moulded in shape of the leading edge root extension being perfectly aligned. The core part may have wandered off centre. Clean excess resin from the fin.
- 25 Leave to cure thoroughly and remove the fin from the box.
- 26 Use 400 grade and finer wet and dry abrasive papers to fair the area of the join.
- 27 When the leading edge root extension is faired into the fin use white gloss spray paint to restore the appearance of the fin.

end