

SC 435

INFO SHEETS

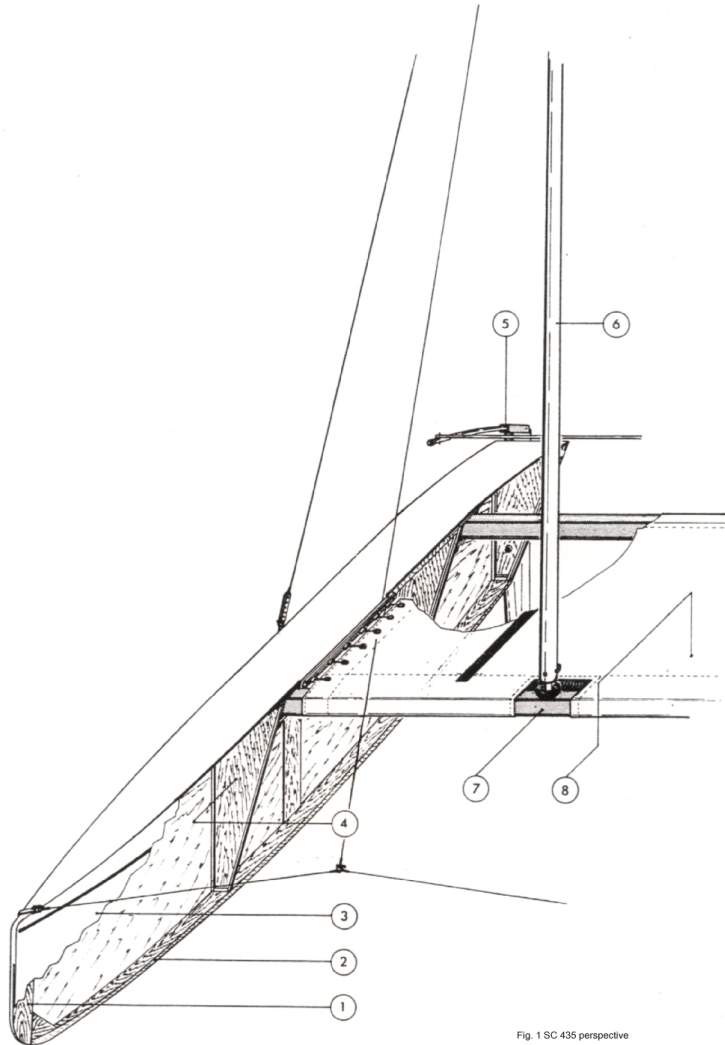
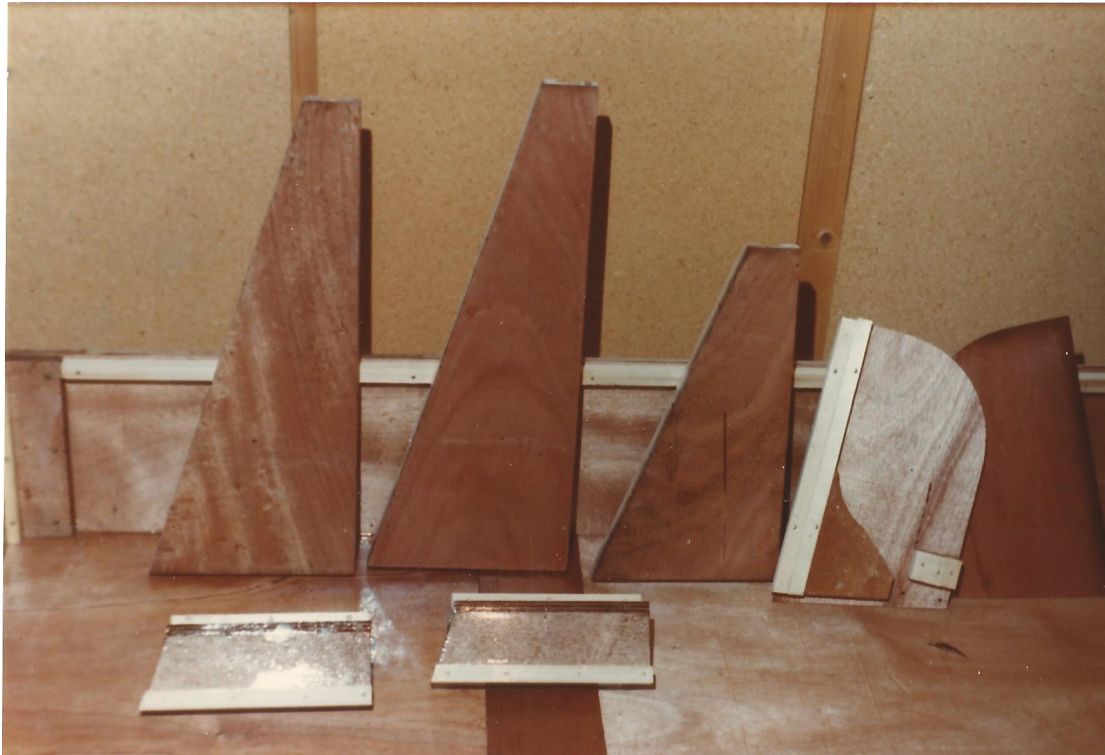


Fig. 1 SC 435 perspective

1979 SC 435 was designed and I built. I have no idea how many boats are sailing. I lost also the count of how many plans I have sold 900 and to how many countries.

The boat is perfect for the first time boat builder. Nothing complicated here. Also the choice of materials is variable. We have for instance also a wooden beam design if you can not get the Aluminum tubes. Or youngest builder was 15 years of age.

There is nothing to wire or knit. We use the matched hole technique known for Aluminum aircraft construction. Much faster and more accurate.



The picture speaks for it self I think. A whole hull consists of 19 parts. So not much to do! The hulls now ready to receive the inner planking. When done glass fabric can be applied and the hulls are painted. The whole process takes not more as 100 to 120 hours.

Here the main data again:

Length:	4,35m
Beam:	2,10m
Weigth:	66,00kg
Weight one hull:	19,00kg
Sail area:	13m ²

The boat can be build for about US \$ 800,- (without the sails). Here the “Bill of Materials “
So you can look around for the best prices you can get depending on your country

BILL OF MATERIALS

MATERIAL	dimensions	piece	Remark
plywood WBP			
Ocoume 4mm	2,5 x 1,22	4	1,2/1,3/1,4/41d,214,4
Ocoume 9mm	2,5 x 1,22	1	Deck parts
Mahogany 6mm	260x310mm	4	Rudder housing
Mahogany 18mm	800x200mm	2	Rudder
Clear fir	15x20mm	30m	superstructure
Ash	20x20mm	7m	1,2,2/5,2,2/5,2,1
Spruce	60x20mm	5m x2	Kiel
Aluminum			
D=70/d=64	2,1m	2	6,1/6,2
D=60/d=55	1,1m	2	7
D=55/d=50	30mm	2	7,1
D=32/d=29	2,4m	1	5,5
Rod D=20	100mm	2	7,3
20x20x2	670mm	2	5,3
U 25x40x25x4	280mm	2	5,4
L 25x50x5	40mm	4	5,4,1
rail 2,10m		2	Trampoline rail
Stainless			
D=10mm 20mm		2	5,4,2
D= 5mm 64mm		2	5,3,1
D= 5mm 70mm		2	7,2
D=12mm 90mm		4	Beam pockets
Wood screws			
3,5x25mm		4	tiller
3 x 20mm		40	Trampoline rail
2 x 12mm		12	Inspection hatch
bolts			
5 x 15mm		12	gudgeons rudder
5 x 40mm		12	gudgeons, transom
6 x. 25mm		16	Beam pockets
4 x 40mm		6	U-rudder housing
nuts M5		12	transom
washers M5		12	gudgeons, transom
Cross head	4 x 25mm		6,7
3 x 5mm 4 7,1			
2,5x25mm	200		Wood connections
Nylon washers 10mm	2		5,4,3
5mm	2		5,3,1
Epoxy/Hardene	7,5kg		
Fused silica	0,5kg		
Glass fiber	0,5kg Filler		
Glass bubbles 0,5kg putty			
Trampoline			
Rig			
blocks 2	2		sheaves with swivel
blocks 2	1		sheave
shackles	4		For blocks
Inspection covers	2		
Deck eye	2		For blocks
Cam cleats	2		Sheets
Rubber string	0,8m 2		Rudder up haul
Safety pins	4		Rudder system
sheets 10mm	12m 2		
rope 6mm	6m		For Trampoline
Mainsail	1		see drawing
Jib	1		see drawing

The construction description is a step by step instruction of 22 paginas. Here the list of drawings

LIST OF DRAWINGS

Fig.	Title
1	View SC 435
2	Hull view
3	Front and rear view
4	Exploded view hull
5	Stem dimensions
5A	Stem sections
5B	Stem cuts
6	Keel dimensions
7	Deck dimensions
8	Outside hull panels
9	Panel lofting
10	Hull construction
11	Bulkheads and transom
11A	Beam socket construction
11B	Beam socket
12	Rudder system
13	Rudder housing
14	Rudders
15	Rudder shaft and gudgeons
15A	Rudder link and tillers
16	Mast construction
17	Wishbone boom
18	Wishbone-boom construction
19	Beam construction
19A	Mast base
20	Plywood cut out
21	Sail plan normal rig
21A	Main sail normal rig
21B	Main sail Wishbone version
22	Sail plan Wishbone rig
23	Fairing of the hull, chain plate mounting
24	Main sail tension