

Mainsail: 8000917 Moria Beneteau 43.4 CYCLADES fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000917 Moria Be

Initial Design Date: 25/9/2024
Boat:
Beneteau 43.4 CYCLADES
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 14.676m
Leech geodesic: 15.460m
Foot geodesic: 5.269m
Head geodesic: 0.135m
Upper width (MUW): 0.973m
Three-quarter width (MTW): 1.796m
Half width (MHW): 3.219m
Quarter width (MQW): 4.364m
Foot median: 15.025m
ORC Mainsail area: 44.337m?
Surface area: 45.460m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.541m	0.374m	71.665?	11.739m	12.327m	Full
60.000%	2.757m	0.470m	71.665?	8.804m	9.245m	Full
40.000%	3.756m	0.400m	71.665?	5.869m	6.163m	Full
20.000%	4.582m	0.226m	71.665?	2.934m	3.082m	Full

Reefing Points

1, Luff: 1.790m ; Leech: 1.859m ; Offset: 0.000m ; Number Eyelets: 4
2, Luff: 3.741m ; Leech: 3.882m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.521m ; Leech: 3.535m ;
2, Luff: 7.336m ; Leech: 7.542m ;
3, Luff: 11.005m ; Leech: 11.444m ;

Luff Slides

1, Position: 0.969m
2, Position: 2.073m
3, Position: 4.104m
4, Position: 4.973m
5, Position: 6.847m
6, Position: 7.825m
7, Position: 9.782m
8, Position: 10.761m
9, Position: 12.718m
10, Position: 13.697m

Luff Curve

		Fanned Luff (@ 5.00% [0.262m])	Before BSeam
14.675m,	0.000m	100% (14.676m) :	0.000m
12.847m,	-0.034m	90% (13.209m) :	0.055m
11.007m,	-0.058m	80% (11.741m) :	0.103m
9.162m,	-0.069m	70% (10.273m) :	0.136m
7.338m,	-0.070m	60% (8.806m) :	0.156m
5.468m,	-0.065m	50% (7.338m) :	0.162m
3.669m,	-0.052m	40% (5.870m) :	0.157m
1.829m,	-0.029m	30% (4.403m) :	0.137m
0.000m,	0.000m	20% (2.935m) :	0.103m
		10% (1.468m) :	0.053m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone:	Split	Radial	Cross
1	0.040m	0.040m	0.040m

Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	38.23
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	45.48	1,2,3,4,5 6,7,8,9,10 11,12,13

