

Mainsail: 8000618 Richard Beneteau First 40.7 fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000618 Richard B

Initial Design Date: 3/7/2024
Boat:
Beneteau First 40.7
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 15.018m
Leech geodesic: 15.837m
Foot geodesic: 5.296m
Head geodesic: 0.135m
Upper width (MUW): 0.953m
Three-quarter width (MTW): 1.748m
Half width (MHW): 3.151m
Quarter width (MQW): 4.321m
Foot median: 15.374m
ORC Mainsail area: 44.828m?
Surface area: 45.807m?
Clew height: 0.139m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.364m	0.201m	70.924?	12.338m	12.945m	Full
62.000%	2.566m	0.294m	70.924?	9.362m	9.787m	Full
42.000%	3.587m	0.262m	70.924?	6.387m	6.630m	Full
22.000%	4.465m	0.155m	70.924?	3.412m	3.473m	Full

Reefing Points

1, Luff: 1.982m ; Leech: 2.067m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 3.979m ; Leech: 4.142m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.753m ; Leech: 3.791m ;
2, Luff: 7.507m ; Leech: 7.738m ;
3, Luff: 11.262m ; Leech: 11.718m ;

Luff Slides

1, Position: 1.054m
2, Position: 2.434m
3, Position: 4.404m
4, Position: 5.395m
5, Position: 7.379m
6, Position: 8.371m
7, Position: 10.354m
8, Position: 11.346m
9, Position: 13.231m
10, Position: 14.125m

Luff Curve

		Fanned Luff (@ 5.00% [0.264m])	Before BSeam
15.017m,	0.000m	100% (15.018m) :	0.000m
13.146m,	-0.035m	90% (13.517m) :	0.058m
11.263m,	-0.059m	80% (12.014m) :	0.108m
9.376m,	-0.070m	70% (10.513m) :	0.143m
7.509m,	-0.071m	60% (9.011m) :	0.163m
5.596m,	-0.066m	50% (7.509m) :	0.168m
3.754m,	-0.053m	40% (6.007m) :	0.162m
1.871m,	-0.030m	30% (4.505m) :	0.140m
0.000m,	0.000m	20% (3.003m) :	0.104m
		10% (1.502m) :	0.053m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.038m	0.038m	0.038m

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

Total Seam Lengths (m)

Horizontal	38.19
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	45.83	1,2,3,4,5 6,7,8,9,10 11,12,13

