

Mainsail: 8000715 Marko Beneteau First 35 fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000715 Marko B

Initial Design Date: 11/9/2024
Boat:
Beneteau First 35
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 13.761m
Leech geodesic: 14.482m
Foot geodesic: 4.752m
Head geodesic: 0.135m
Upper width (MUW): 0.865m
Three-quarter width (MTW): 1.588m
Half width (MHW): 2.870m
Quarter width (MQW): 3.904m
Foot median: 14.072m
ORC Mainsail area: 37.174m?
Surface area: 37.999m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.347m	0.294m	72.294?	11.009m	11.548m	Full
60.000%	2.446m	0.382m	72.294?	8.257m	8.661m	Full
40.000%	3.346m	0.321m	72.294?	5.505m	5.774m	Full
20.000%	4.099m	0.176m	72.294?	2.755m	2.887m	Full

Reefing Points

1, Luff: 1.678m ; Leech: 1.743m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 3.646m ; Leech: 3.782m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.439m ; Leech: 3.463m ;
2, Luff: 6.879m ; Leech: 7.066m ;
3, Luff: 10.319m ; Leech: 10.711m ;

Luff Slides

1, Position: 1.377m
2, Position: 4.130m
3, Position: 6.881m
4, Position: 9.633m
5, Position: 12.385m

Luff Curve

		Fanned Luff (@ 5.00% [0.237m])	Before BSeam
13.761m,	0.000m	100% (13.761m) :	0.000m
12.046m,	-0.032m	90% (12.385m) :	0.051m
10.320m,	-0.055m	80% (11.009m) :	0.095m
8.591m,	-0.064m	70% (9.633m) :	0.125m
6.880m,	-0.065m	60% (8.257m) :	0.142m
5.127m,	-0.061m	50% (6.881m) :	0.147m
3.440m,	-0.048m	40% (5.504m) :	0.142m
1.715m,	-0.027m	30% (4.128m) :	0.122m
0.000m,	0.000m	20% (2.752m) :	0.090m
		10% (1.376m) :	0.046m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.000m	0.000m	0.000m
Zone: 1/b	0.000m	0.000m	0.000m
Zone: 2/a	0.000m	0.000m	0.000m
Zone: 2/b	0.000m	0.000m	0.000m
Zone: 3/a	0.000m	0.000m	0.000m
Zone: 3/b	0.000m	0.000m	0.000m
Zone: 4	0.038m	0.015m	0.038m

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	0.00
Radial/Vertical	15.38
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	38.03	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,1b\8 1b\9,1b\10,1b\11,1b\12,1b\13 2\1,2\2,2\3,2\4,2\5 2b\6,2b\5,2b\4,2b\3,2b\2 2b\1,3\1,3\2,3\3,3b\4 3b\3,3b\2,3b\1,4\1,4\2 4\3,4\4,4\5

