

Mainsail: 8000320 Bernardo -1 fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000320 Bernardo

Initial Design Date: 27/3/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 13.800m
 Leech geodesic: 14.517m
 Foot geodesic: 4.710m
 Head geodesic: 0.135m
 Upper width (MUW): 0.968m
 Three-quarter width (MTW): 1.771m
 Half width (MHW): 3.050m
 Quarter width (MQW): 3.995m
 Foot median: 14.113m
 ORC Mainsail area: 38.793m?
 Surface area: 39.906m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.555m	0.375m	73.053?	11.033m	11.567m	Full
60.000%	2.662m	0.492m	73.053?	8.274m	8.675m	Full
40.000%	3.519m	0.427m	73.053?	5.515m	5.783m	Full
20.000%	4.168m	0.233m	73.053?	2.757m	2.892m	Full

Reefing Points

1, Luff: 1.821m ; Leech: 1.876m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.449m ; Leech: 3.444m ;
 2, Luff: 6.898m ; Leech: 7.033m ;
 3, Luff: 10.348m ; Leech: 10.677m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.235m])	Before BSeam
13.799m,	0.000m	100% (13.800m) :	0.000m
12.080m,	-0.043m	90% (12.420m) :	0.065m
10.349m,	-0.074m	80% (11.040m) :	0.121m
8.615m,	-0.087m	70% (9.660m) :	0.158m
6.899m,	-0.089m	60% (8.280m) :	0.177m
5.142m,	-0.082m	50% (6.900m) :	0.180m
3.450m,	-0.066m	40% (5.520m) :	0.170m
1.720m,	-0.037m	30% (4.140m) :	0.145m
0.000m,	0.000m	20% (2.760m) :	0.104m
		10% (1.380m) :	0.053m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.026m	0.016m	0.026m
Zone: 1/b	0.026m	0.016m	0.026m
Zone: 2/a	0.026m	0.016m	0.026m
Zone: 2/b	0.026m	0.016m	0.026m
Zone: 3	0.026m	0.016m	0.026m

Edge Excesses

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

Total Seam Lengths (m)

Horizontal	6.13
Radial/Vertical	142.41
Bi-Radial Split	9.56

Materials

Material	Area (m ²)	Panels
Material 1	39.94	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\12,2\1 2\2,2\3,2\4,2\5,2b\1 2b\2,2b\3,2b\4,2b\5,3\1 3\2,3\3,3\4,3\5,3\6

