

# Mainsail: 8000320 Bernardo -1 fullbattmainV1.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:	0.180m
Upper width (MUW):	0.990m
Three-quarter width (MTW):	1.790m
Half width (MHW):	3.070m
Quarter width (MQW):	4.000m
Foot median:	14.045m
ORC Mainsail area:	39.008m <sup>2</sup>
Surface area:	39.983m <sup>2</sup>
Clew height:	0.100m
Mast rake:	0.000m

## Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.575m	0.373m	73.053?	11.034m	11.568m	Full
60.000%	2.714m	0.538m	73.053?	8.278m	8.676m	Full
40.000%	3.513m	0.429m	73.053?	5.522m	5.784m	Full
20.000%	4.182m	0.255m	73.053?	2.767m	2.892m	Full

## Reefing Points

1, Luff: 1.821m ; Leech: 1.872m ; Offset: 0.000m ; Number Eyelets: 3

## Draft Stripes

1, Luff: 3.449m ; Leech: 3.438m ;  
2, Luff: 6.898m ; Leech: 7.023m ;  
3, Luff: 10.348m ; Leech: 10.666m ;

## Luff Curve

		Fanned Luff (@ 5.00% [0.235m])	Before BSeam
13.799m,	0.000m	100% (13.800m) :	0.000m
12.080m,	-0.041m	90% (12.420m) :	0.058m
10.349m,	-0.071m	80% (11.040m) :	0.107m
8.615m,	-0.083m	70% (9.660m) :	0.139m
6.899m,	-0.085m	60% (8.280m) :	0.156m
5.142m,	-0.079m	50% (6.900m) :	0.157m
3.450m,	-0.063m	40% (5.520m) :	0.148m
1.720m,	-0.036m	30% (4.140m) :	0.126m
0.000m,	0.000m	20% (2.760m) :	0.091m
		10% (1.380m) :	0.046m
		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
	0.000m	0.000m	0.000m

## Total Seam Lengths (m)

Horizontal	6.17
Radial/Vertical	142.50
Bi-Radial Split	9.48

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	40.01	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

