

# Mainsail: 7001202 Jon Beneteau First 44.7 fullbatt Mainsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001202 Jon\70012

Initial Design Date: 12/12/2023  
Boat:

Comments:

Client:

Design Data  
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Main

Measurements

Luff geodesic:	17.090m
Leech geodesic:	18.076m
Foot geodesic:	6.167m
Head geodesic:	0.153m
Upper width (MUW):	1.189m
Three-quarter width (MTW):	2.185m
Half width (MHW):	3.850m
Quarter width (MQW):	5.146m
Foot median:	17.542m
ORC Mainsail area:	61.314m?
Surface area:	63.025m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.743m	0.388m	72.033?	13.997m	14.768m	Full
62.000%	3.206m	0.552m	72.033?	10.569m	11.166m	Full
42.000%	4.364m	0.495m	72.033?	7.141m	7.564m	Full
22.000%	5.309m	0.306m	72.033?	3.714m	3.962m	Full

Reefing Points

1, Luff: 2.085m ; Leech: 2.166m ; Offset: 0.000m ; Number Eyelets: 0  
2, Luff: 4.357m ; Leech: 4.520m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 4.272m ; Leech: 4.345m ;  
2, Luff: 8.544m ; Leech: 8.826m ;  
3, Luff: 12.816m ; Leech: 13.367m ;

Luff Slides

1, Position: 1.289m  
2, Position: 2.638m  
3, Position: 4.962m  
4, Position: 6.092m  
5, Position: 8.312m  
6, Position: 9.450m  
7, Position: 11.728m  
8, Position: 12.867m  
9, Position: 15.034m  
10, Position: 16.062m

Luff Curve

		Fanned Luff (@ 5.00% [0.307m])	Before BSeam
17.089m,	0.000m	100% (17.090m) :	0.000m
14.960m,	-0.042m	90% (15.381m) :	0.024m
12.817m,	-0.072m	80% (13.672m) :	0.046m
10.669m,	-0.085m	70% (11.963m) :	0.058m
8.544m,	-0.086m	60% (10.254m) :	0.062m
6.368m,	-0.080m	50% (8.545m) :	0.062m
4.272m,	-0.064m	40% (6.836m) :	0.057m
2.130m,	-0.036m	30% (5.127m) :	0.049m
0.000m,	0.000m	20% (3.418m) :	0.036m
		10% (1.709m) :	0.019m
		0% (0.000m) :	0.000m

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## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.015m	0.045m
Zone: 1/b	0.038m	0.015m	0.045m
Zone: 2/a	0.038m	0.015m	0.045m
Zone: 2/b	0.038m	0.015m	0.045m
Zone: 3/a	0.038m	0.015m	0.045m
Zone: 3/b	0.038m	0.015m	0.045m
Zone: 4	0.038m	0.015m	0.045m

## Edge Excesses

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

## Total Seam Lengths (m)

Horizontal	11.37
Radial/Vertical	165.92
Bi-Radial Split	13.63

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	65.60	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\4,3b\1,3b\2 3b\3,3b\4,4\1,4\2,4\3 4\4,4\5

