

# Mainsail: 8001115 Matthew-1 Beneteau First36.7 main.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8001115 Matthew

Initial Design Date: 27/11/2024  
Boat:  
Beneteau First 36.7  
Client:

Comments:

Design Data  
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Main

Measurements

Luff geodesic:	13.760m
Leech geodesic:	14.451m
Foot geodesic:	4.710m
Head geodesic:	0.150m
Upper width (MUW):	0.964m
Three-quarter width (MTW):	1.769m
Half width (MHW):	3.072m
Quarter width (MQW):	4.013m
Foot median:	14.025m
ORC Mainsail area:	38.822m?
Surface area:	39.939m?
Clew height:	0.124m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.552m	0.373m	73.047?	11.002m	11.538m	Full
60.000%	2.690m	0.540m	73.047?	8.250m	8.653m	Full
40.000%	3.555m	0.504m	73.047?	5.500m	5.769m	Full
20.000%	4.192m	0.291m	73.047?	2.750m	2.884m	Full

Reefing Points

- 1, Luff: 1.692m ; Leech: 1.728m ; Offset: 0.000m ; Number Eyelets: 3
- 2, Luff: 3.982m ; Leech: 4.070m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

- 1, Luff: 3.439m ; Leech: 3.406m ;
- 2, Luff: 6.878m ; Leech: 6.976m ;
- 3, Luff: 10.318m ; Leech: 10.625m ;

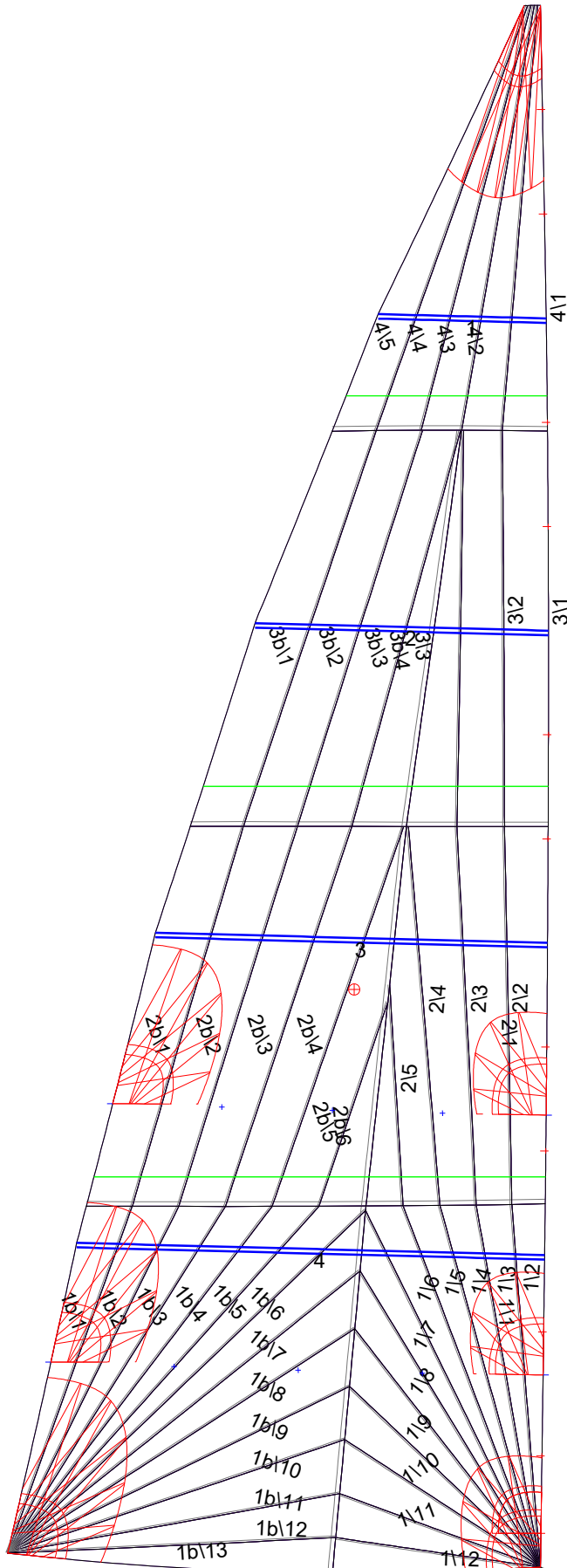
Luff Slides

- 1, Position: 0.980m
- 2, Position: 2.071m
- 3, Position: 3.666m
- 4, Position: 4.583m
- 5, Position: 6.417m
- 6, Position: 7.333m
- 7, Position: 9.167m
- 8, Position: 10.084m
- 9, Position: 11.921m
- 10, Position: 12.841m

Luff Curve

		Fanned Luff (@ 5.00% [0.235m])	Before BSeam
13.760m,	0.000m	100% (13.760m) :	0.000m
10.390m,	-0.059m	90% (12.384m) :	0.051m
6.886m,	-0.068m	80% (11.008m) :	0.098m
3.443m,	-0.046m	70% (9.632m) :	0.127m
0.000m,	0.000m	60% (8.256m) :	0.140m
		50% (6.880m) :	0.138m
		40% (5.504m) :	0.126m
		30% (4.128m) :	0.105m
		20% (2.752m) :	0.075m
		10% (1.376m) :	0.036m
		0% (0.000m) :	0.000m

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## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.040m	0.015m	0.040m
Zone: 1/b	0.040m	0.015m	0.040m
Zone: 2/a	0.040m	0.015m	0.040m
Zone: 2/b	0.040m	0.015m	0.040m
Zone: 3/a	0.040m	0.015m	0.040m
Zone: 3/b	0.040m	0.015m	0.040m
Zone: 4	0.040m	0.015m	0.040m

## Edge Excesses

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

## Total Seam Lengths (m)

Horizontal	9.36
Radial/Vertical	135.56
Bi-Radial Split	10.50

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	40.00	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