

Mainsail: 8000513 Mitch Beneteau first 260 Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000513 Mitch Beneteau

Initial Design Date: 15/5/2024
Boat:
Beneteau first 260
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 9.540m
Leech geodesic: 10.101m
Foot geodesic: 3.470m
Head geodesic: 0.115m
Upper width (MUW): 0.668m
Three-quarter width (MTW): 1.206m
Half width (MHW): 2.128m
Quarter width (MQW): 2.877m
Foot median: 9.778m
ORC Mainsail area: 19.096m?
Surface area: 19.621m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	0.964m	0.178m	72.002?	7.818m	8.250m	Full
62.000%	1.050m	0.254m	72.002?	5.911m	6.238m	
42.000%	0.950m	0.227m	72.002?	4.004m	4.226m	
22.000%	0.950m	0.140m	72.002?	2.097m	2.214m	

Reefing Points

1, Luff: 1.163m ; Leech: 1.210m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 2.432m ; Leech: 2.525m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 3.147m ; Leech: 3.200m ;
2, Luff: 6.295m ; Leech: 6.522m ;

Luff Slides

1, Position: 0.699m
2, Position: 1.398m
3, Position: 2.097m
4, Position: 2.732m
5, Position: 3.368m
6, Position: 4.004m
7, Position: 4.639m
8, Position: 5.275m
9, Position: 5.911m
10, Position: 6.546m
11, Position: 7.182m
12, Position: 8.392m
13, Position: 8.966m

Luff Curve

		Fanned Luff (@ 5.00% [0.173m])	Before BSeam
9.540m,	0.000m	100% (9.540m) :	0.000m
8.351m,	-0.022m	90% (8.586m) :	0.013m
7.155m,	-0.038m	80% (7.632m) :	0.071m
5.956m,	-0.045m	70% (6.678m) :	0.093m
4.770m,	-0.045m	60% (5.724m) :	0.105m
3.555m,	-0.042m	50% (4.770m) :	0.109m
2.385m,	-0.034m	40% (3.816m) :	0.105m
1.189m,	-0.019m	30% (2.862m) :	0.090m
0.000m,	0.000m	20% (1.908m) :	0.067m
		10% (0.954m) :	0.033m
		0% (0.000m) :	0.000m

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.025m	0.013m	0.025m
Zone: 1/b	0.025m	0.013m	0.025m
Zone: 2/a	0.025m	0.013m	0.025m
Zone: 2/b	0.025m	0.013m	0.025m
Zone: 3	0.025m	0.013m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	4.46
Radial/Vertical	79.38
Bi-Radial Split	6.37

Materials

Material	Area (m ²)	Panels
Material 1	19.64	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1b\1,1b\2,1b\3,1b\4,1b\5 1b\6,1b\7,1b\8,1b\9,1b\10 1b\11,2\1,2\2,2\3,2b\4 2b\3,2b\2,2b\1,3\1,3\2 3\3,3\4,3\5

