

Mainsail: 8001029 Antoine-1 Beneteau First310 Mainsail.des Fareast Sails/ Michael,

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8001029 Antoine E

Initial Design Date: 5/11/2024
Boat:
Beneteau First 310
Client:
Fareast Sails/ Michael,

Comments:
tack angle 88.5 degree

Design Data
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Main

Measurements

Luff geodesic: 11.350m
Leech geodesic: 11.920m
Foot geodesic: 3.861m
Head geodesic: 0.115m
Upper width (MUW): 0.711m
Three-quarter width (MTW): 1.304m
Half width (MHW): 2.322m
Quarter width (MQW): 3.162m
Foot median: 11.567m
ORC Mainsail area: 24.904m?
Surface area: 25.352m?
Clew height: 0.101m
Mast rake: 0.300m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.116m	0.168m	73.158?	9.075m	9.510m	Full
60.000%	1.100m	0.214m	73.158?	6.806m	7.132m	
40.000%	1.100m	0.191m	73.158?	4.538m	4.755m	
20.000%	1.050m	0.114m	73.158?	2.269m	2.377m	

Reefing Points

1, Luff: 1.421m ; Leech: 1.473m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 3.001m ; Leech: 3.111m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 2.836m ; Leech: 2.931m ;
2, Luff: 5.673m ; Leech: 5.882m ;
3, Luff: 7.943m ; Leech: 8.255m ;

Luff Slides

1, Position: 1.135m
2, Position: 2.270m
3, Position: 3.405m
4, Position: 4.540m
5, Position: 5.688m
6, Position: 6.823m
7, Position: 7.958m
8, Position: 10.213m

Luff Curve

		Fanned Luff (@ 5.00% [0.192m])	Before BSeam
11.349m,	0.000m	100% (11.350m) :	0.000m
8.570m,	-0.065m	90% (10.215m) :	0.022m
5.680m,	-0.076m	80% (9.080m) :	0.042m
2.840m,	-0.051m	70% (7.945m) :	0.055m
0.000m,	0.000m	60% (6.810m) :	0.059m
		50% (5.675m) :	0.057m
		40% (4.540m) :	0.051m
		30% (3.405m) :	0.041m
		20% (2.270m) :	0.028m
		10% (1.135m) :	0.013m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.025m
Zone: 1/b	0.025m	0.015m	0.025m
Zone: 2/a	0.025m	0.015m	0.025m
Zone: 2/b	0.025m	0.015m	0.025m
Zone: 3	0.025m	0.015m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	4.89
Radial/Vertical	74.24
Bi-Radial Split	7.39

Materials

Material	Area (m ²)	Panels
7oz p	25.39	1/1,1/2,1/3,1/4,1/5 1/6,1/7,1/8,1/9,1b1 1b2,1b3,1b4,1b5,1b6 1b7,1b8,1b9,2/1,2/2 2/3,2b1,2b2,2b3,3/1 3/2,3/3,3/4

