

Mainsail: 7001132 Mark-1 Lagoon 42 fullbatt Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\7001132 Mark\700

Initial Design Date: 9/1/2024
Boat:

Comments:
mast rake 3 ft

Client:

Design Data
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Main

Measurements

Luff geodesic:	13.830m
Leech geodesic:	14.669m
Foot geodesic:	6.255m
Head geodesic:	0.150m
Upper width (MUW):	1.573m
Three-quarter width (MTW):	2.894m
Half width (MHW):	4.689m
Quarter width (MQW):	5.614m
Foot median:	14.037m
ORC Mainsail area:	56.788m?
Surface area:	60.276m?
Clew height:	0.100m
Mast rake:	0.914m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
85.695%	2.325m	1.171m	71.868?	11.831m	12.444m	Full
70.067%	3.780m	1.584m	71.868?	9.668m	10.175m	Full
53.819%	4.709m	1.491m	71.868?	7.420m	7.816m	Full
36.455%	5.365m	1.112m	71.868?	5.019m	5.294m	Full
18.303%	5.859m	0.585m	71.868?	2.509m	2.658m	Full

Reefing Points

- 1, Luff: 1.823m ; Leech: 1.843m ; Offset: 0.000m ; Number Eyelets: 4
- 2, Luff: 3.938m ; Leech: 3.975m ; Offset: 0.000m ; Number Eyelets: 4
- 3, Luff: 6.564m ; Leech: 6.626m ; Offset: 0.000m ; Number Eyelets: 4

Draft Stripes

- 1, Luff: 3.454m ; Leech: 3.184m ;
- 2, Luff: 6.910m ; Leech: 6.720m ;
- 3, Luff: 10.368m ; Leech: 10.348m ;

Luff Slides

- 1, Position: 1.254m
- 2, Position: 3.637m
- 3, Position: 6.219m
- 4, Position: 8.544m
- 5, Position: 10.749m
- 6, Position: 12.830m

Luff Curve

		Fanned Luff (@ 5.00% [0.312m])	Before BSeam
13.830m,	0.000m	100% (13.830m) :	-0.000m
12.107m,	-0.025m	90% (12.448m) :	0.015m
10.373m,	-0.039m	80% (11.064m) :	0.104m
8.634m,	-0.045m	70% (9.681m) :	0.133m
6.915m,	-0.045m	60% (8.298m) :	0.145m
5.153m,	-0.042m	50% (6.915m) :	0.141m
3.458m,	-0.033m	40% (5.532m) :	0.129m
1.723m,	-0.019m	30% (4.149m) :	0.105m
0.000m,	0.000m	20% (2.766m) :	0.072m
		10% (1.384m) :	0.033m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone:	Split	Radial	Cross
1	0.040m	0.040m	0.040m

Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	49.20
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	60.22	1,2,3,4,5 6,7,8,9,10 11,12

