

Mainsail: 7001132 Mark-1 Lagoon 440 fullbatt MainsailV1.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:	14.432m
Leech geodesic:	15.210m
Foot geodesic:	6.255m
Head geodesic:	0.150m
Upper width (MUW):	1.591m
Three-quarter width (MTW):	2.914m
Half width (MHW):	4.697m
Quarter width (MQW):	5.616m
Foot median:	14.618m
ORC Mainsail area:	59.388m?
Surface area:	62.761m?
Clew height:	0.100m
Mast rake:	0.914m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
85.695%	2.322m	1.171m	71.868?	12.364m	12.913m	Full
70.067%	3.777m	1.584m	71.868?	10.124m	10.558m	Full
53.819%	4.704m	1.491m	71.868?	7.795m	8.110m	Full
36.455%	5.359m	1.112m	71.868?	5.307m	5.493m	Full
18.303%	5.853m	0.585m	71.868?	2.706m	2.758m	Full

Reefing Points

- 1, Luff: 1.903m ; Leech: 1.920m ; Offset: 0.000m ; Number Eyelets: 4
- 2, Luff: 4.109m ; Leech: 4.141m ; Offset: 0.000m ; Number Eyelets: 4
- 3, Luff: 6.850m ; Leech: 6.903m ; Offset: 0.000m ; Number Eyelets: 4

Draft Stripes

- 1, Luff: 3.604m ; Leech: 3.312m ;
- 2, Luff: 7.211m ; Leech: 6.996m ;
- 3, Luff: 10.820m ; Leech: 10.771m ;

Luff Slides

- 1, Position: 1.309m
- 2, Position: 3.796m
- 3, Position: 6.490m
- 4, Position: 8.916m
- 5, Position: 11.217m
- 6, Position: 13.389m

Luff Curve

		Fanned Luff (@ 5.00% [0.312m])	Before BSeam	
14.432m,	0.000m	100% (14.432m) :	-0.000m	0.000m
12.634m,	-0.025m	90% (12.990m) :	0.015m	0.059m
10.824m,	-0.039m	80% (11.546m) :	0.025m	0.104m
9.010m,	-0.045m	70% (10.103m) :	0.029m	0.133m
7.216m,	-0.045m	60% (8.659m) :	0.029m	0.145m
5.378m,	-0.042m	50% (7.216m) :	0.028m	0.142m
3.608m,	-0.033m	40% (5.773m) :	0.024m	0.129m
1.798m,	-0.019m	30% (4.330m) :	0.019m	0.105m
0.000m,	0.000m	20% (2.886m) :	0.011m	0.072m
		10% (1.444m) :	0.003m	0.033m
		0% (0.000m) :	0.000m	0.000m

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

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

Total Seam Lengths (m)

Horizontal	51.15
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	62.75	1,2,3,4,5 6,7,8,9,10 11,12

