

# Mainsail: 7000712 Edward-1 Lagoon 39 STD Mainsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000712 Edward\7000

Initial Design Date: 26/7/2023  
Boat:

Comments:

Client:

Design Data  
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## Main

### Measurements

Luff geodesic:	13.050m
Leech geodesic:	13.362m
Foot geodesic:	3.618m
Head geodesic:	0.135m
Upper width (MUW):	1.123m
Three-quarter width (MTW):	1.925m
Half width (MHW):	2.911m
Quarter width (MQW):	3.353m
Foot median:	13.161m
ORC Mainsail area:	32.990m?
Surface area:	34.044m?
Clew height:	0.540m
Mast rake:	0.400m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
85.364%	1.498m	0.769m	78.845?	11.128m	11.349m	Full
69.600%	2.313m	0.956m	78.845?	9.072m	9.253m	Full
52.709%	2.892m	0.914m	78.845?	6.869m	7.007m	Full
35.616%	3.239m	0.688m	78.845?	4.641m	4.735m	Full
18.613%	3.431m	0.358m	78.845?	2.425m	2.474m	Full

### Reefing Points

- 1, Luff: 1.786m ; Leech: 1.794m ; Offset: 0.000m ; Number Eyelets: 0
- 2, Luff: 3.911m ; Leech: 3.925m ; Offset: 0.000m ; Number Eyelets: 0

### Draft Stripes

- 1, Luff: 3.259m ; Leech: 3.130m ;
- 2, Luff: 6.781m ; Leech: 6.684m ;
- 3, Luff: 9.784m ; Leech: 9.753m ;

### Luff Slides

- 1, Position: 1.087m
- 2, Position: 3.260m
- 3, Position: 5.433m
- 4, Position: 7.607m
- 5, Position: 9.781m
- 6, Position: 11.959m

### Luff Curve

		Fanned Luff (@ 5.00% [0.180m])	Before BSeam
13.049m,	0.000m	100% (13.050m) :	0.000m
11.423m,	-0.031m	90% (11.746m) :	0.051m
9.787m,	-0.053m	80% (10.440m) :	0.104m
8.147m,	-0.064m	70% (9.135m) :	0.139m
6.525m,	-0.066m	60% (7.830m) :	0.152m
4.862m,	-0.061m	50% (6.525m) :	0.151m
3.262m,	-0.049m	40% (5.220m) :	0.137m
1.626m,	-0.028m	30% (3.915m) :	0.111m
0.000m,	0.000m	20% (2.610m) :	0.077m
		10% (1.305m) :	0.037m
		0% (0.000m) :	0.000m

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Seam Allowances			
	Split	Radial	Cross
Zone: 1	0.000m	0.000m	0.045m
Zone: 2	0.000m	0.000m	0.045m

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

Total Seam Lengths (m)

Horizontal	29.78
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
8oz p	34.02	1\1, 1\2, 2\1, 2\2, 2\3 2\4, 2\5, 2\6, 2\7, 2\8 2\9, 2\10

