

Mainsail: 7000712 Edward-1 Lagoon 39 STD MainsailV1.des

Design Info
=====

Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000712 Edward\700

Initial Design Date: 26/7/2023
Boat:

Comments:

Client:

Design Data
=====

Main

Measurements

Luff geodesic:	12.899m
Leech geodesic:	13.218m
Foot geodesic:	3.618m
Head geodesic:	0.135m
Upper width (MUW):	1.121m
Three-quarter width (MTW):	1.923m
Half width (MHW):	2.910m
Quarter width (MQW):	3.353m
Foot median:	13.012m
ORC Mainsail area:	32.597m?
Surface area:	33.659m?
Clew height:	0.540m
Mast rake:	0.400m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
85.364%	1.498m	0.769m	78.845?	10.997m	11.225m	Full
69.600%	2.314m	0.956m	78.845?	8.963m	9.152m	Full
52.709%	2.892m	0.914m	78.845?	6.784m	6.931m	Full
35.616%	3.239m	0.688m	78.845?	4.580m	4.683m	Full
18.613%	3.432m	0.358m	78.845?	2.388m	2.447m	Full

Reefing Points

- 1, Luff: 1.765m ; Leech: 1.773m ; Offset: 0.000m ; Number Eyelets: 0
- 2, Luff: 3.866m ; Leech: 3.881m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

- 1, Luff: 3.222m ; Leech: 3.093m ;
- 2, Luff: 6.703m ; Leech: 6.607m ;
- 3, Luff: 9.670m ; Leech: 9.642m ;

Luff Slides

- 1, Position: 1.074m
- 2, Position: 3.222m
- 3, Position: 5.370m
- 4, Position: 7.519m
- 5, Position: 9.668m
- 6, Position: 11.820m

Luff Curve

		Fanned Luff (@ 5.00% [0.180m])	Before BSeam
12.898m,	0.000m	100% (12.899m) :	0.000m
11.291m,	-0.031m	90% (11.610m) :	0.051m
9.674m,	-0.053m	80% (10.319m) :	0.104m
8.053m,	-0.064m	70% (9.029m) :	0.139m
6.449m,	-0.066m	60% (7.739m) :	0.152m
4.806m,	-0.061m	50% (6.449m) :	0.152m
3.225m,	-0.049m	40% (5.160m) :	0.137m
1.607m,	-0.028m	30% (3.870m) :	0.111m
0.000m,	0.000m	20% (2.580m) :	0.077m
		10% (1.290m) :	0.037m
		0% (0.000m) :	0.000m

Mainsail: 7000712 Edward-1 Lagoon 39 STD MainsailV1.des

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	29.52
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
8oz p	33.62	1\1,1\2,2\1,2\2,2\3 2\4,2\5,2\6,2\7,2\8 2\9,2\10

