

Mainsail: 8000304 Elizabeth mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000304 Elizabeth

Initial Design Date: 14/3/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	14.785m
Leech geodesic:	15.496m
Foot geodesic:	4.928m
Head geodesic:	0.133m
Upper width (MUW):	0.996m
Three-quarter width (MTW):	1.802m
Half width (MHW):	3.101m
Quarter width (MQW):	4.130m
Foot median:	14.996m
ORC Mainsail area:	42.793m?
Surface area:	43.599m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.456m	0.339m	73.412?	12.116m	12.675m	Full
62.000%	2.587m	0.440m	73.412?	9.160m	9.584m	Full
42.000%	1.250m	0.388m	73.412?	6.204m	6.492m	
22.000%	1.250m	0.224m	73.412?	3.249m	3.401m	

Reefing Points

- 1, Luff: 1.803m ; Leech: 1.857m ; Offset: 0.000m ; Number Eyelets: 4
- 2, Luff: 4.064m ; Leech: 4.183m ; Offset: 0.000m ; Number Eyelets: 4
- 3, Luff: 6.577m ; Leech: 6.773m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

- 1, Luff: 3.695m ; Leech: 3.692m ;
- 2, Luff: 7.390m ; Leech: 7.536m ;
- 3, Luff: 11.086m ; Leech: 11.428m ;

Luff Slides

- 1, Position: 1.074m
- 2, Position: 2.350m
- 3, Position: 3.318m
- 4, Position: 4.552m
- 5, Position: 5.361m
- 6, Position: 6.184m
- 7, Position: 7.172m
- 8, Position: 8.159m
- 9, Position: 10.134m
- 10, Position: 11.122m
- 11, Position: 13.002m
- 12, Position: 13.893m

Foot Slides

- 1, Position: 0.550m
- 2, Position: 1.097m
- 3, Position: 1.644m
- 4, Position: 2.191m
- 5, Position: 2.737m
- 6, Position: 3.284m
- 7, Position: 3.831m
- 8, Position: 4.378m

Luff Curve

14.784m,	0.000m
12.942m,	-0.048m
11.088m,	-0.083m
9.230m,	-0.098m
7.392m,	-0.100m
5.509m,	-0.092m
3.696m,	-0.074m
1.842m,	-0.042m
0.000m,	0.000m

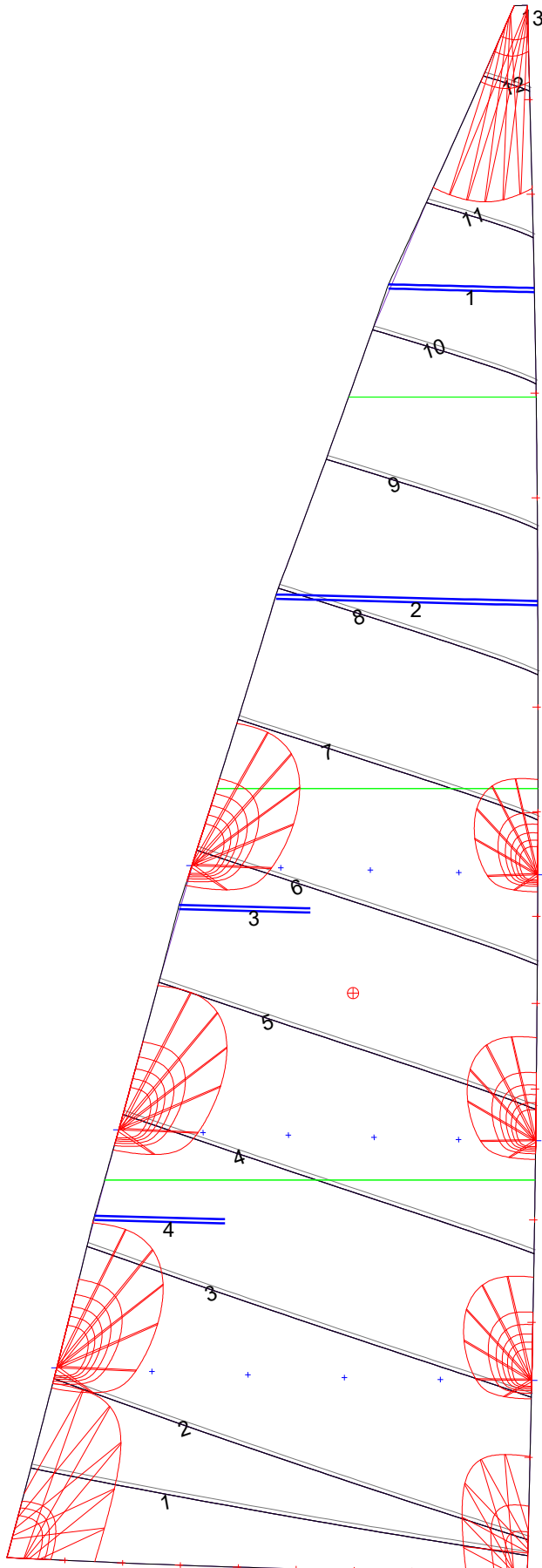
Fanned Luff (@ 5.00% [0.246m])

100% (14.785m) :	0.000m
90% (13.307m) :	0.031m
80% (11.828m) :	0.057m
70% (10.350m) :	0.072m
60% (8.871m) :	0.077m
50% (7.393m) :	0.077m
40% (5.914m) :	0.072m
30% (4.435m) :	0.062m
20% (2.957m) :	0.046m
10% (1.479m) :	0.023m
0% (0.000m) :	0.000m

Before BSeam

0.000m
0.065m
0.121m
0.156m
0.172m
0.177m
0.171m
0.151m
0.116m
0.065m
0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.038m	0.038m	0.038m

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

Total Seam Lengths (m)

Horizontal	36.94
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	43.60	1,2,3,4,5 6,7,8,9,10 11,12,13