

Mainsail: 7001012 Linio-1 Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001012 Linio\7001

Initial Design Date: 26/10/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 12.824m
 Leech geodesic: 13.330m
 Foot geodesic: 4.022m
 Head geodesic: 0.115m
 Upper width (MUW): 0.736m
 Three-quarter width (MTW): 1.348m
 Half width (MHW): 2.413m
 Quarter width (MQW): 3.289m
 Foot median: 13.065m
 ORC Mainsail area: 29.240m?
 Surface area: 29.796m?
 Clew height: 0.328m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.146m	0.170m	74.503?	10.254m	10.638m	Full
60.000%	2.047m	0.236m	74.503?	7.690m	7.979m	Full
40.000%	2.810m	0.212m	74.503?	5.126m	5.319m	Full
20.000%	3.456m	0.122m	74.503?	2.563m	2.659m	Full

Reefing Points

- 1, Luff: 0.005m ; Leech: 0.350m ; Offset: 0.000m ; Number Eyelets: 0
- 2, Luff: 1.474m ; Leech: 1.521m ; Offset: 0.000m ; Number Eyelets: 3
- 3, Luff: 3.269m ; Leech: 3.370m ; Offset: 0.000m ; Number Eyelets: 3
- 4, Luff: 5.449m ; Leech: 5.617m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

- 1, Luff: 4.231m ; Leech: 4.282m ;
- 2, Luff: 8.462m ; Leech: 8.696m ;

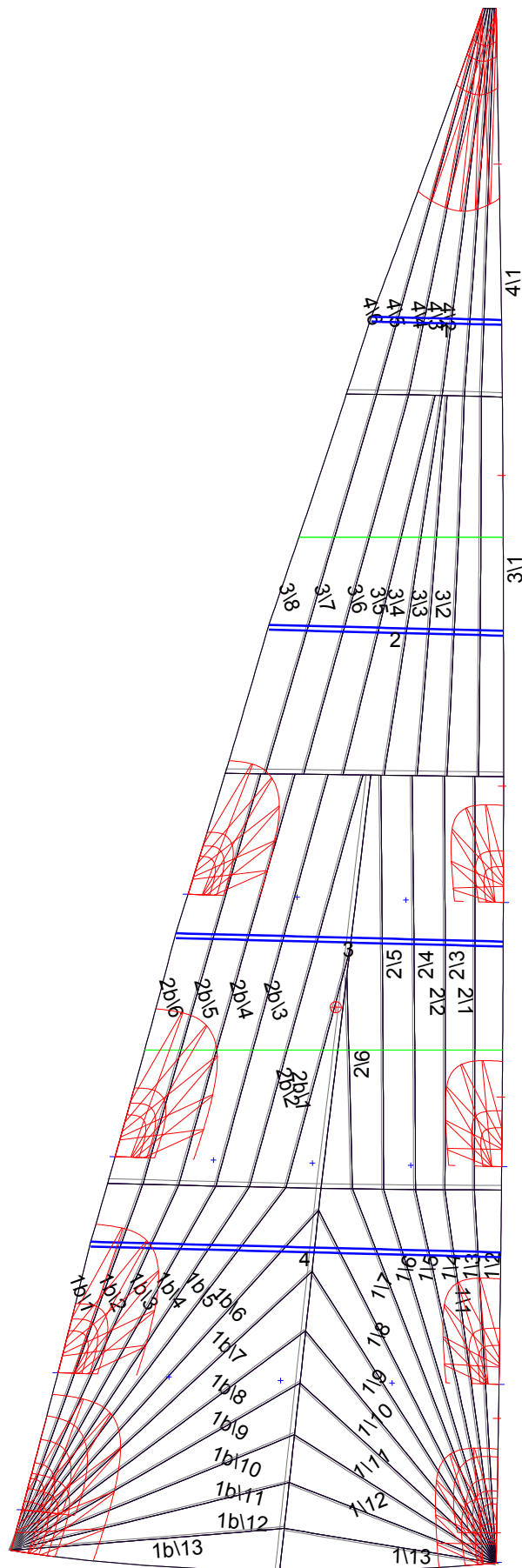
Luff Slides

- 1, Position: 1.194m
- 2, Position: 3.844m
- 3, Position: 6.408m
- 4, Position: 8.972m
- 5, Position: 11.539m

Luff Curve

		Fanned Luff (@ 5.00% [0.200m])	Before BSeam
12.824m,	0.000m	100% (12.824m) :	0.000m
11.226m,	-0.030m	90% (11.542m) :	0.042m
9.618m,	-0.051m	80% (10.259m) :	0.081m
8.006m,	-0.060m	70% (8.977m) :	0.110m
6.412m,	-0.061m	60% (7.694m) :	0.124m
4.778m,	-0.056m	50% (6.412m) :	0.127m
3.206m,	-0.045m	40% (5.130m) :	0.120m
1.598m,	-0.026m	30% (3.847m) :	0.101m
0.000m,	0.000m	20% (2.565m) :	0.074m
		10% (1.282m) :	0.039m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.016m	0.038m
Zone: 1/b	0.038m	0.016m	0.038m
Zone: 2/a	0.038m	0.016m	0.038m
Zone: 2/b	0.038m	0.016m	0.038m
Zone: 3	0.038m	0.016m	0.038m
Zone: 4	0.038m	0.016m	0.038m

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	7.11
Radial/Vertical	141.18
Bi-Radial Split	6.95

Materials

Material	Area (m ²)	Panels
Material 1	29.85	1\1, 1\2, 1\3, 1\4, 1\5 1\6, 1\7, 1\8, 1\9, 1\10 1\11, 1\12, 1\13, 1\14, 1\15 1b\3, 1b\4, 1b\5, 1b\6, 1b\7 1b\8, 1b\9, 1b\10, 1b\11, 1b\12 1b\13, 2\1, 2\2, 2\3, 2\4 2\5, 2\6, 2b\1, 2b\2, 2b\3 2b\4, 2b\5, 2b\6, 3\1, 3\2 3\3, 3\4, 3\5, 3\6, 3\7 3\8, 4\1, 4\2, 4\3, 4\4 4\5, 4\6