

Mainsail: 8000330 Leon-1 MainsailV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000330 Leon Ma

Initial Design Date: 27/4/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 7.450m
 Leech geodesic: 7.823m
 Foot geodesic: 2.460m
 Head geodesic: 0.115m
 Upper width (MUW): 0.516m
 Three-quarter width (MTW): 0.915m
 Half width (MHW): 1.558m
 Quarter width (MQW): 2.070m
 Foot median: 7.565m
 ORC Mainsail area: 10.859m?
 Surface area: 11.090m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.808m	0.169m	73.549?	5.955m	6.242m	Full
60.000%	1.355m	0.220m	73.549?	4.465m	4.682m	Full
40.000%	1.804m	0.194m	73.549?	2.975m	3.121m	Full
20.000%	2.168m	0.112m	73.549?	1.485m	1.561m	Full

Reefing Points

1, Luff: 0.909m ; Leech: 0.934m ; Offset: 0.000m ; Number Eyelets: 2
 2, Luff: 1.877m ; Leech: 1.930m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 2.458m ; Leech: 2.494m ;
 2, Luff: 4.916m ; Leech: 5.060m ;

Luff Slides

1, Position: 0.555m
 2, Position: 1.114m
 3, Position: 2.104m
 4, Position: 2.564m
 5, Position: 3.472m
 6, Position: 3.968m
 7, Position: 4.962m
 8, Position: 5.459m
 9, Position: 6.454m
 10, Position: 6.952m

Foot Slides

1, Position: 0.400m
 2, Position: 0.815m
 3, Position: 1.230m
 4, Position: 1.645m
 5, Position: 2.060m

Luff Curve

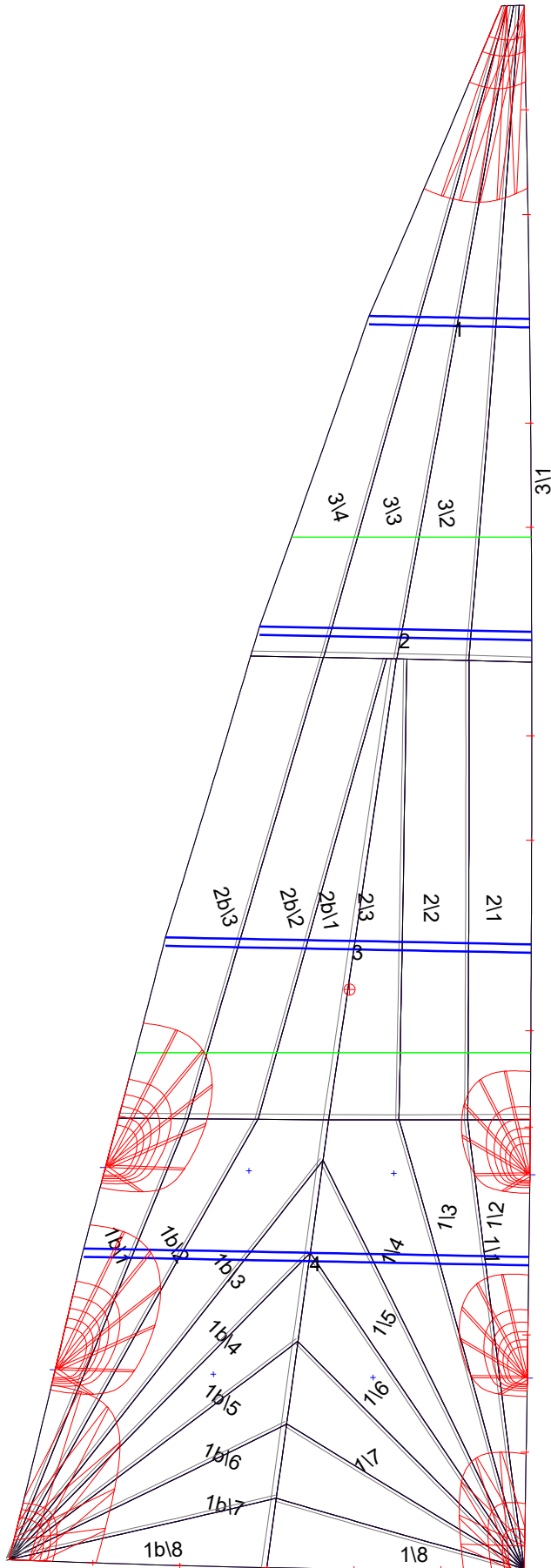
7.450m, 0.000m
 6.521m, -0.017m
 5.587m, -0.030m
 4.651m, -0.035m
 3.725m, -0.035m
 2.776m, -0.033m
 1.862m, -0.026m
 0.928m, -0.015m
 0.000m, 0.000m

Fanned Luff (@ 5.00% [0.123m])

100% (7.450m) : 0.000m -0.000m
 90% (6.705m) : 0.011m 0.026m
 80% (5.960m) : 0.020m 0.050m
 70% (5.215m) : 0.025m 0.065m
 60% (4.470m) : 0.027m 0.072m
 50% (3.725m) : 0.027m 0.074m
 40% (2.980m) : 0.025m 0.072m
 30% (2.235m) : 0.022m 0.064m
 20% (1.490m) : 0.016m 0.049m
 10% (0.745m) : 0.008m 0.027m
 0% (0.000m) : 0.000m 0.000m

Before BSeam

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.025m
Zone: 1/b	0.025m	0.015m	0.025m
Zone: 2/a	0.025m	0.015m	0.025m
Zone: 2/b	0.025m	0.015m	0.025m
Zone: 3	0.025m	0.015m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	3.41
Radial/Vertical	44.96
Bi-Radial Split	4.54

Materials

Material	Area (m ²)	Panels
Material 1	11.10	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1b\1,1b\2 1b\3,1b\4,1b\5,1b\6,1b\7 1b\8,2\1,2\2,2\3,2b\1 2b\2,2b\3,3\1,3\2,3\3 3\4