

Mainsail: 8000330 Leon-1 MainsailV2.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: 2/5/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	7.430m
Leech geodesic:	7.804m
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:	7.545m
ORC Mainsail area:	10.830m?
Surface area:	11.061m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.808m	0.169m	73.549?	5.939m	6.227m	Full
60.000%	1.355m	0.220m	73.549?	4.452m	4.670m	Full
40.000%	1.804m	0.194m	73.549?	2.966m	3.114m	Full
20.000%	2.168m	0.112m	73.549?	1.480m	1.557m	Full

Reefing Points

- 1, Luff: 0.906m ; Leech: 0.932m ; Offset: 0.000m ; Number Eyelets: 2
- 2, Luff: 1.872m ; Leech: 1.925m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

- 1, Luff: 2.451m ; Leech: 2.488m ;
- 2, Luff: 4.903m ; Leech: 5.047m ;

Luff Slides

- 1, Position: 0.553m
- 2, Position: 1.111m
- 3, Position: 2.098m
- 4, Position: 2.557m
- 5, Position: 3.462m
- 6, Position: 3.958m
- 7, Position: 4.948m
- 8, Position: 5.444m
- 9, Position: 6.436m
- 10, Position: 6.933m

Foot Slides

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

Luff Curve

7.430m,	0.000m
6.504m,	-0.017m
5.572m,	-0.030m
4.638m,	-0.035m
3.715m,	-0.035m
2.768m,	-0.033m
1.857m,	-0.026m
0.926m,	-0.015m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.123m])

100% (7.430m) :	0.000m	-0.000m
90% (6.687m) :	0.011m	0.026m
80% (5.944m) :	0.020m	0.050m
70% (5.201m) :	0.025m	0.065m
60% (4.458m) :	0.027m	0.072m
50% (3.715m) :	0.027m	0.074m
40% (2.972m) :	0.025m	0.072m
30% (2.229m) :	0.021m	0.064m
20% (1.486m) :	0.016m	0.049m
10% (0.743m) :	0.008m	0.027m
0% (0.000m) :	0.000m	0.000m

Before BSeam

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.025m	0.015m	0.025m

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

Total Seam Lengths (m)

Horizontal	11.08
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	11.04	1,2,3,4,5 6,7,8

