

Mainsail: 8000330 Leon-1 Maxi 77 Mainsail.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: 23/4/2024
Boat:
Maxi 77
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic:	11.140m
Leech geodesic:	11.815m
Foot geodesic:	4.110m
Head geodesic:	0.115m
Upper width (MUW):	0.783m
Three-quarter width (MTW):	1.438m
Half width (MHW):	2.543m
Quarter width (MQW):	3.418m
Foot median:	11.427m
ORC Mainsail area:	26.495m?
Surface area:	27.241m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.850m	0.245m	71.647?	8.907m	9.414m	
60.000%	1.050m	0.332m	71.647?	6.680m	7.061m	
40.000%	1.050m	0.293m	71.647?	4.453m	4.707m	
20.000%	0.950m	0.169m	71.647?	2.226m	2.354m	

Reefing Points

1, Luff: 1.470m ; Leech: 1.527m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 3.063m ; Leech: 3.181m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.675m ; Leech: 3.734m ;
2, Luff: 7.351m ; Leech: 7.621m ;

Luff Slides

1, Position: 0.656m
2, Position: 1.281m
3, Position: 2.095m
4, Position: 2.796m
5, Position: 3.711m
6, Position: 4.453m
7, Position: 5.195m
8, Position: 5.937m
9, Position: 6.680m
10, Position: 7.422m
11, Position: 8.165m
12, Position: 8.907m
13, Position: 9.651m
14, Position: 10.396m

Luff Curve

		Fanned Luff (@ 5.00% [0.205m])	Before BSeam
11.140m,	0.000m	100% (11.140m) :	0.000m
9.751m,	-0.026m	90% (10.026m) :	0.046m
8.355m,	-0.044m	80% (8.912m) :	0.085m
6.955m,	-0.052m	70% (7.798m) :	0.112m
5.570m,	-0.053m	60% (6.684m) :	0.127m
4.151m,	-0.049m	50% (5.570m) :	0.131m
2.785m,	-0.039m	40% (4.456m) :	0.124m
1.388m,	-0.022m	30% (3.342m) :	0.105m
0.000m,	0.000m	20% (2.228m) :	0.077m
		10% (1.114m) :	0.038m
		0% (0.000m) :	0.000m

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

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

Total Seam Lengths (m)

Horizontal	23.34
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	27.26	1,2,3,4,5 6,7,8,9,10

