

Mainsail: 8000109 John Corsair Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000109 John\800

Initial Design Date: 17/1/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	5.420m
Leech geodesic:	5.861m
Foot geodesic:	2.420m
Head geodesic:	0.090m
Upper width (MUW):	0.482m
Three-quarter width (MTW):	0.876m
Half width (MHW):	1.516m
Quarter width (MQW):	2.026m
Foot median:	5.562m
ORC Mainsail area:	7.686m?
Surface area:	7.948m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.830m	0.179m	90.000?	4.098m	4.671m	Full
60.000%	0.740m	0.232m	90.000?	2.823m	3.503m	
40.000%	0.740m	0.205m	90.000?	1.552m	2.335m	
20.000%	0.740m	0.118m	90.000?	0.286m	1.168m	

Draft Stripes

1, Luff: 1.788m ; Leech: 1.826m ;
2, Luff: 3.577m ; Leech: 3.752m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.121m])	Before BSeam
5.420m,	0.000m	100% (5.420m) :	-0.000m
4.744m,	-0.013m	90% (4.878m) :	0.008m
4.065m,	-0.021m	80% (4.336m) :	0.014m
3.384m,	-0.025m	70% (3.794m) :	0.018m
2.710m,	-0.026m	60% (3.252m) :	0.019m
2.019m,	-0.024m	50% (2.710m) :	0.019m
1.355m,	-0.019m	40% (2.168m) :	0.017m
0.675m,	-0.011m	30% (1.626m) :	0.015m
0.000m,	0.000m	20% (1.084m) :	0.010m
		10% (0.542m) :	0.005m
		0% (0.000m) :	0.000m

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

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

Total Seam Lengths (m)

Horizontal	8.05
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	7.90	1,2,3,4,5 6

