

Mainsail: 8000530 Greg Dinghy Marine Fiber Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000530 Greg Dinghy Marine Fiber Mainsail.des

Initial Design Date: 12/6/2024
Boat:
Dinghy Marine Fiber
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic:	3.772m
Leech geodesic:	4.273m
Foot geodesic:	2.414m
Head geodesic:	0.091m
Upper width (MUW):	0.432m
Three-quarter width (MTW):	0.815m
Half width (MHW):	1.459m
Quarter width (MQW):	1.982m
Foot median:	3.948m
ORC Mainsail area:	5.184m?
Surface area:	5.473m?
Clew height:	0.080m
Mast rake:	0.200m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
75.000%	0.450m	0.154m	90.000?	2.426m	3.184m	
50.000%	0.555m	0.175m	90.000?	1.163m	2.123m	
25.000%	0.555m	0.105m	90.000?	0.162m	1.061m	

Reefing Points

1, Luff: 0.459m ; Leech: 0.502m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 1.883m ; Leech: 2.006m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.120m])	Before BSeam
3.771m,	0.000m	100% (3.772m) :	0.000m
3.301m,	-0.017m	90% (3.395m) :	0.010m
2.829m,	-0.029m	80% (3.017m) :	0.019m
2.355m,	-0.034m	70% (2.640m) :	0.024m
1.886m,	-0.035m	60% (2.263m) :	0.026m
1.405m,	-0.032m	50% (1.886m) :	0.026m
0.943m,	-0.026m	40% (1.509m) :	0.024m
0.470m,	-0.015m	30% (1.132m) :	0.020m
0.000m,	0.000m	20% (0.754m) :	0.015m
		10% (0.377m) :	0.007m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone:	Split	Radial	Cross
1	0.000m	0.000m	0.015m

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

Total Seam Lengths (m)

Horizontal	6.44
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	5.41	1,2,3,4,5

