

# Mainsail: 7001113 Greg Noelex25 Mainsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001113 Greg\7001

Initial Design Date: 18/11/2023  
Boat:

Comments:

Client:

Design Data  
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Main

Measurements

Luff geodesic:	7.290m
Leech geodesic:	7.900m
Foot geodesic:	3.280m
Head geodesic:	0.115m
Upper width (MUW):	0.712m
Three-quarter width (MTW):	1.320m
Half width (MHW):	2.150m
Quarter width (MQW):	2.805m
Foot median:	7.454m
ORC Mainsail area:	14.523m?
Surface area:	15.081m?
Clew height:	0.134m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
79.170%	1.295m	0.415m	84.000?	5.542m	6.228m	Full
60.000%	0.985m	0.426m	82.500?	4.016m	4.720m	
40.000%	0.985m	0.356m	82.500?	2.402m	3.147m	
20.000%	0.985m	0.221m	82.500?	0.792m	1.573m	

Reefing Points

1, Luff: 0.838m ; Leech: 0.866m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 1.822m ; Leech: 1.764m ;  
2, Luff: 3.644m ; Leech: 3.700m ;  
3, Luff: 5.466m ; Leech: 5.670m ;

Luff Slides

1, Position: 0.667m  
2, Position: 1.480m  
3, Position: 2.289m  
4, Position: 3.075m  
5, Position: 3.874m  
6, Position: 4.687m  
7, Position: 6.374m

Luff Curve

		Fanned Luff (@ 5.00% [0.163m])	Before BSeam
7.290m,	0.000m	100% (7.290m) :	0.000m -0.000m
6.381m,	-0.017m	90% (6.561m) :	0.009m 0.030m
5.467m,	-0.026m	80% (5.832m) :	0.017m 0.062m
4.551m,	-0.030m	70% (5.103m) :	0.021m 0.082m
3.645m,	-0.030m	60% (4.374m) :	0.022m 0.093m
2.716m,	-0.026m	50% (3.645m) :	0.021m 0.094m
1.822m,	-0.020m	40% (2.916m) :	0.018m 0.088m
0.908m,	-0.011m	30% (2.187m) :	0.014m 0.074m
0.000m,	0.000m	20% (1.458m) :	0.008m 0.051m
		10% (0.729m) :	0.003m 0.023m
		0% (0.000m) :	0.000m 0.000m

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Seam Allowances			
	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	4.63
Radial/Vertical	48.97
Bi-Radial Split	4.62

### Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	15.09	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

