

Mainsail: 5000106 Raymond mainsail R1 3 Reefs.des

Design Info
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Design File:
F:\Dropbox (个人)\Fareast Sails\2021\5000106 Raymond\5000106 Raymond mainsail R1 3 Reefs.des

Initial Design Date: 15/1/2021
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 6.250m
Leech geodesic: 6.933m
Foot geodesic: 3.260m
Head geodesic: 0.102m
Upper width (MUW): 0.561m
Three-quarter width (MTW): 1.044m
Half width (MHW): 1.909m
Quarter width (MQW): 2.627m
Foot median: 6.534m
ORC Mainsail area: 11.335m?
Surface area: 11.772m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.913m	0.119m	64.856?	4.995m	5.515m	Full
60.000%	0.975m	0.164m	64.856?	3.746m	4.136m	
40.000%	0.975m	0.136m	64.856?	2.497m	2.758m	
20.000%	0.975m	0.078m	64.856?	1.248m	1.379m	

Reefing Points

1, Luff: 1.000m ; Leech: 1.090m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 2.000m ; Leech: 2.180m ; Offset: 0.000m ; Number Eyelets: 2
3, Luff: 3.001m ; Leech: 3.272m ; Offset: 0.000m ; Number Eyelets: 2

Luff Curve

		Fanned Luff (@ 5.00% [0.162m])	Before BSeam
6.250m,	0.000m	100% (6.250m) :	0.000m
5.471m,	-0.013m	90% (5.625m) :	0.028m
4.687m,	-0.023m	80% (5.000m) :	0.055m
3.902m,	-0.027m	70% (4.375m) :	0.076m
3.125m,	-0.028m	60% (3.750m) :	0.089m
2.329m,	-0.026m	50% (3.125m) :	0.091m
1.562m,	-0.021m	40% (2.500m) :	0.083m
0.779m,	-0.012m	30% (1.875m) :	0.067m
0.000m,	0.000m	20% (1.250m) :	0.046m
		10% (0.625m) :	0.022m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.025m
Zone: 1/b	0.025m	0.015m	0.025m
Zone: 2	0.025m	0.015m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	11.33
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	11.78	1\1,1b\1,2\1,2\2,2\3 2\4,2\5

