

Mainsail: 8000323 Robbie Sonata 7 Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000323 Robbie S

Initial Design Date: 5/4/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	7.020m
Leech geodesic:	7.456m
Foot geodesic:	2.700m
Head geodesic:	0.080m
Upper width (MUW):	0.514m
Three-quarter width (MTW):	0.942m
Half width (MHW):	1.661m
Quarter width (MQW):	2.239m
Foot median:	7.200m
ORC Mainsail area:	10.938m?
Surface area:	11.271m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.824m	0.161m	70.980?	5.617m	5.939m	Full
60.000%	1.432m	0.209m	70.980?	4.218m	4.454m	Full
40.000%	0.670m	0.184m	70.980?	2.819m	2.969m	
20.000%	0.670m	0.106m	70.980?	1.420m	1.485m	

Reefing Points

1, Luff: 1.052m ; Leech: 1.094m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.509m ; Leech: 3.592m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.134m])	Before BSeam
7.020m,	0.000m	100% (7.020m) :	0.000m
6.145m,	-0.016m	90% (6.318m) :	0.010m
5.265m,	-0.028m	80% (5.616m) :	0.017m
4.382m,	-0.033m	70% (4.914m) :	0.022m
3.510m,	-0.033m	60% (4.212m) :	0.023m
2.616m,	-0.031m	50% (3.510m) :	0.023m
1.755m,	-0.025m	40% (2.808m) :	0.021m
0.875m,	-0.014m	30% (2.106m) :	0.017m
0.000m,	0.000m	20% (1.404m) :	0.012m
		10% (0.702m) :	0.006m
		0% (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	3.68
Radial/Vertical	43.95
Bi-Radial Split	4.28

Materials

Material	Area (m ²)	Panels
Material 1	11.28	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

