

Mainsail: 8000207 Mary Precision 18 STDmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000207 Mary Pre

Initial Design Date: 19/2/2024
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 6.233m
 Leech geodesic: 6.643m
 Foot geodesic: 2.414m
 Head geodesic: 0.103m
 Upper width (MUW): 0.473m
 Three-quarter width (MTW): 0.859m
 Half width (MHW): 1.485m
 Quarter width (MQW): 1.996m
 Foot median: 6.403m
 ORC Mainsail area: 8.716m?
 Surface area: 8.950m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
75.000%	0.500m	0.151m	90.000?	4.424m	4.967m	
50.000%	0.600m	0.167m	90.000?	2.666m	3.311m	
25.000%	0.600m	0.104m	90.000?	0.914m	1.656m	

Reefing Points

1, Luff: 0.841m ; Leech: 0.878m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 2.056m ; Leech: 2.095m ;
 2, Luff: 4.113m ; Leech: 4.278m ;

Luff Slides

1, Position: 0.610m
 2, Position: 1.236m
 3, Position: 1.863m
 4, Position: 2.490m
 5, Position: 3.116m
 6, Position: 3.743m
 7, Position: 4.370m
 8, Position: 4.997m
 9, Position: 5.623m

Luff Curve

		Fanned Luff (@ 5.00% [0.120m])	Before BSeam
6.233m,	0.000m	100% (6.233m) :	0.000m
5.456m,	-0.017m	90% (5.610m) :	0.011m
4.674m,	-0.029m	80% (4.986m) :	0.019m
3.891m,	-0.034m	70% (4.363m) :	0.024m
3.116m,	-0.034m	60% (3.740m) :	0.025m
2.322m,	-0.032m	50% (3.116m) :	0.025m
1.558m,	-0.025m	40% (2.493m) :	0.023m
0.777m,	-0.014m	30% (1.870m) :	0.020m
0.000m,	0.000m	20% (1.247m) :	0.014m
		10% (0.623m) :	0.007m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.025m	0.025m	0.025m

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

Total Seam Lengths (m)

Horizontal	7.15
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	8.93	1,2,3,4,5 6

