

# Mainsail: 8000207 Mary Precision 18 STDmainV3.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: 8/3/2024  
Boat:

Comments:

Client:

Design Data  
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Main

Measurements

Luff geodesic: 20.045Ft  
 Leech geodesic: 21.426Ft  
 Foot geodesic: 7.920Ft  
 Head geodesic: 0.338Ft  
 Upper width (MUW): 1.582Ft  
 Three-quarter width (MTW): 2.847Ft  
 Half width (MHW): 4.962Ft  
 Quarter width (MQW): 6.600Ft  
 Foot median: 20.614Ft  
 ORC Mainsail area: 92.860Ft?  
 Surface area: 96.013Ft?  
 Clew height: 0.328Ft  
 Mast rake: 0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.659Ft	0.464Ft	90.000?	15.334Ft	17.081Ft	
60.000%	2.370Ft	0.686Ft	90.000?	10.781Ft	12.811Ft	
40.000%	2.370Ft	0.583Ft	90.000?	6.244Ft	8.541Ft	
20.000%	1.975Ft	0.333Ft	90.000?	1.724Ft	4.270Ft	

Reefing Points

1, Luff: 2.705Ft ; Leech: 2.815Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Draft Stripes

1, Luff: 6.613Ft ; Leech: 6.721Ft ;  
 2, Luff: 13.227Ft ; Leech: 13.742Ft ;

Luff Slides

1, Position: 2.165Ft  
 2, Position: 4.410Ft  
 3, Position: 6.655Ft  
 4, Position: 8.900Ft  
 5, Position: 11.145Ft  
 6, Position: 13.390Ft  
 7, Position: 15.635Ft  
 8, Position: 17.880Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.395Ft])	Before BSeam
20.044Ft,	0.000Ft	100% (20.045Ft) :	0.000Ft
17.546Ft,	-0.055Ft	90% (18.041Ft) :	0.035Ft
15.033Ft,	-0.094Ft	80% (16.036Ft) :	0.062Ft
12.514Ft,	-0.110Ft	70% (14.032Ft) :	0.077Ft
10.022Ft,	-0.112Ft	60% (12.027Ft) :	0.083Ft
7.469Ft,	-0.104Ft	50% (10.023Ft) :	0.083Ft
5.011Ft,	-0.083Ft	40% (8.018Ft) :	0.077Ft
2.498Ft,	-0.047Ft	30% (6.013Ft) :	0.065Ft
0.000Ft,	0.000Ft	20% (4.009Ft) :	0.047Ft
		10% (2.005Ft) :	0.023Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.082Ft	0.082Ft	0.082Ft

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

Total Seam Lengths (Ft)

Horizontal	30.16
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft <sup>2</sup> )	Panels
Material 1	95.66	1,2,3,4,5 6,7

