

# Mainsail: 8000207 Mary Precision 18 STDmainV1.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: 28/2/2024  
Boat:

Comments:

Client:

Design Data  
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Main

Measurements

Luff geodesic: 20.350Ft  
 Leech geodesic: 21.707Ft  
 Foot geodesic: 7.920Ft  
 Head geodesic: 0.338Ft  
 Upper width (MUW): 1.577Ft  
 Three-quarter width (MTW): 2.871Ft  
 Half width (MHW): 4.974Ft  
 Quarter width (MQW): 6.611Ft  
 Foot median: 20.911Ft  
 ORC Mainsail area: 94.467Ft?  
 Surface area: 97.172Ft?  
 Clew height: 0.328Ft  
 Mast rake: 0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
75.000%	1.640Ft	0.554Ft	90.000?	14.436Ft	16.226Ft	
50.000%	1.969Ft	0.653Ft	90.000?	8.688Ft	10.818Ft	
25.000%	1.969Ft	0.408Ft	90.000?	2.963Ft	5.409Ft	

Reefing Points

1, Luff: 2.746Ft ; Leech: 2.857Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Draft Stripes

1, Luff: 6.713Ft ; Leech: 6.818Ft ;  
 2, Luff: 13.428Ft ; Leech: 13.948Ft ;

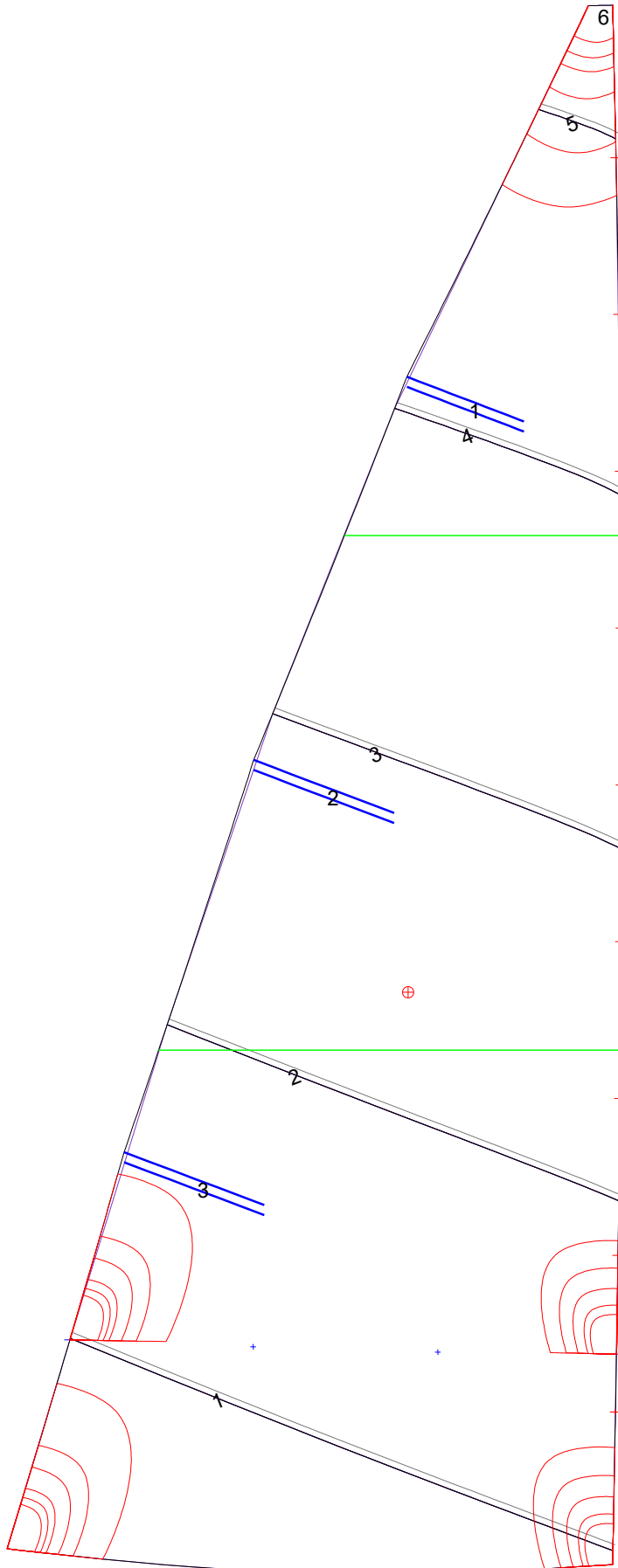
Luff Slides

1, Position: 1.990Ft  
 2, Position: 4.036Ft  
 3, Position: 6.083Ft  
 4, Position: 8.129Ft  
 5, Position: 10.175Ft  
 6, Position: 12.221Ft  
 7, Position: 14.267Ft  
 8, Position: 16.314Ft  
 9, Position: 18.360Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.395Ft])	Before BSeam
20.349Ft,	0.000Ft	100% (20.350Ft) :	0.000Ft
17.813Ft,	-0.055Ft	90% (18.316Ft) :	0.035Ft
15.262Ft,	-0.094Ft	80% (16.280Ft) :	0.062Ft
12.704Ft,	-0.110Ft	70% (14.245Ft) :	0.078Ft
10.174Ft,	-0.112Ft	60% (12.210Ft) :	0.083Ft
7.582Ft,	-0.104Ft	50% (10.175Ft) :	0.083Ft
5.087Ft,	-0.083Ft	40% (8.140Ft) :	0.077Ft
2.536Ft,	-0.047Ft	30% (6.105Ft) :	0.066Ft
0.000Ft,	0.000Ft	20% (4.070Ft) :	0.048Ft
		10% (2.035Ft) :	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	23.64
Radial/Vertical	0.00
Bi-Radial Split	0.00

**Materials**

Material	Area (Ft <sup>2</sup> )	Panels
Material 1	96.92	1,2,3,4,5 6