

# Mainsail: 7000723 Matthew-1 Mainsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000723 Matthew\7000723 Matthew-1 Mainsail.des

Initial Design Date: 3/8/2023  
Boat:

Comments:

Client:

Design Data  
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## Main

### Measurements

Luff geodesic: 304.92In  
 Leech geodesic: 326.49In  
 Foot geodesic: 120.79In  
 Head geodesic: 4.53In  
 Upper width (MUW): 24.00In  
 Three-quarter width (MTW): 43.82In  
 Half width (MHW): 76.38In  
 Quarter width (MQW): 101.06In  
 Foot median: 311.47In  
 ORC Mainsail area: 150.249Ft?  
 Surface area: 153.878Ft?  
 Clew height: 3.94In  
 Mast rake: 0.00In

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	38.82In	8.29In	70.491?	243.75In	259.90In	Full
60.000%	66.62In	10.77In	70.491?	182.79In	194.92In	Full
40.000%	88.57In	9.50In	70.491?	121.85In	129.95In	Full
20.000%	105.90In	5.48In	70.491?	60.92In	64.97In	Full

### Reefing Points

1, Luff: 38.10In ; Leech: 39.71In ; Offset: 0.00In ; Number Eyelets: 2  
 2, Luff: 80.78In ; Leech: 84.16In ; Offset: 0.00In ; Number Eyelets: 2

### Draft Stripes

1, Luff: 100.59In ; Leech: 102.34In ;  
 2, Luff: 201.21In ; Leech: 209.36In ;

### Luff Slides

1, Position: 30.46In  
 2, Position: 94.47In  
 3, Position: 152.32In  
 4, Position: 213.27In  
 5, Position: 274.33In

### Foot Slides

1, Position: 19.68In  
 2, Position: 40.04In  
 3, Position: 60.39In  
 4, Position: 80.75In  
 5, Position: 101.10In

### Luff Curve

		Fanned Luff (@ 5.00% [6.02In])	Before BSeam
304.91In,	0.00In	100% (304.92In) :	0.00In -0.00In
266.91In,	-0.70In	90% (274.44In) :	0.36In 1.26In
228.68In,	-1.21In	80% (243.94In) :	0.69In 2.49In
190.36In,	-1.42In	70% (213.45In) :	0.88In 3.44In
152.45In,	-1.45In	60% (182.95In) :	0.94In 3.94In
113.61In,	-1.34In	50% (152.46In) :	0.91In 3.99In
76.23In,	-1.07In	40% (121.97In) :	0.84In 3.62In
38.00In,	-0.61In	30% (91.48In) :	0.70In 2.93In
0.00In,	0.00In	20% (60.98In) :	0.50In 2.01In
		10% (30.49In) :	0.25In 0.97In
		0% (0.00In) :	0.00In 0.00In

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## Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.984In	0.588In	0.984In
Zone: 1/b	0.984In	0.588In	0.984In
Zone: 2/a	0.984In	0.588In	0.984In
Zone: 2/b	0.984In	0.588In	0.984In
Zone: 3	0.984In	0.588In	0.984In

## Edge Excesses

Sail:	Luff	Leech	Foot
	0.000In	0.000In	0.000In

## Total Seam Lengths (In)

Horizontal	145.24
Radial/Vertical	2317.60
Bi-Radial Split	225.22

## Materials

Material	Area (Ft <sup>2</sup> )	Panels
Material 1	154.12	1\1, 1\2, 1\3, 1\4, 1\5 1\6, 1\7, 1\8, 1\9, 1\10 1b\1, 1b\2, 1b\3, 1b\4, 1b\5 1b\6, 1b\7, 1b\8, 1b\9, 1b\10 2\1, 2\2, 2\3, 2b\1, 2b\2 2b\3, 3\1, 3\2, 3\3, 3\4

