

Mainsail: 7000507 Richard Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000507 Richard\700

Initial Design Date: 12/5/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	24.272Ft
Leech geodesic:	26.863Ft
Foot geodesic:	12.867Ft
Head geodesic:	0.377Ft
Upper width (MUW):	2.376Ft
Three-quarter width (MTW):	4.439Ft
Half width (MHW):	7.902Ft
Quarter width (MQW):	10.691Ft
Foot median:	25.336Ft
ORC Mainsail area:	179.824Ft?
Surface area:	188.571Ft?
Clew height:	0.328Ft
Mast rake:	0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	4.016Ft	0.788Ft	65.070?	19.385Ft	21.385Ft	Full
60.000%	6.938Ft	1.023Ft	65.070?	14.529Ft	16.039Ft	Full
40.000%	9.326Ft	0.902Ft	65.070?	9.675Ft	10.693Ft	Full
20.000%	11.264Ft	0.521Ft	65.070?	4.823Ft	5.346Ft	Full

Reefing Points

1, Luff: 3.395Ft ; Leech: 3.628Ft ; Offset: 0.000Ft ; Number Eyelets: 2
2, Luff: 6.912Ft ; Leech: 7.395Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Draft Stripes

1, Luff: 8.004Ft ; Leech: 8.070Ft ;
2, Luff: 16.012Ft ; Leech: 17.001Ft ;

Luff Slides

1, Position: 2.410Ft
2, Position: 7.247Ft
3, Position: 12.100Ft
4, Position: 16.956Ft
5, Position: 21.828Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.640Ft])	Before BSeam
24.270Ft,	0.000Ft	100% (24.272Ft) :	0.000Ft
21.246Ft,	-0.075Ft	90% (21.846Ft) :	0.148Ft
18.203Ft,	-0.128Ft	80% (19.418Ft) :	0.283Ft
15.152Ft,	-0.151Ft	70% (16.991Ft) :	0.372Ft
12.135Ft,	-0.154Ft	60% (14.563Ft) :	0.417Ft
9.043Ft,	-0.142Ft	50% (12.136Ft) :	0.428Ft
6.068Ft,	-0.114Ft	40% (9.709Ft) :	0.406Ft
3.024Ft,	-0.065Ft	30% (7.282Ft) :	0.352Ft
0.000Ft,	0.000Ft	20% (4.854Ft) :	0.260Ft
		10% (2.428Ft) :	0.134Ft
		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	52.09
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	188.21	1,2,3,4,5 6,7

