

Mainsail: 8000410 Richard-1 Sirius 22 mainsailV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000410 Richard S

Initial Design Date: 7/5/2024
Boat:
Sirius 22
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 21.780Ft
Leech geodesic: 23.360Ft
Foot geodesic: 8.827Ft
Head geodesic: 0.377Ft
Upper width (MUW): 1.754Ft
Three-quarter width (MTW): 3.162Ft
Half width (MHW): 5.480Ft
Quarter width (MQW): 7.340Ft
Foot median: 22.425Ft
ORC Mainsail area: 112.023Ft?
Surface area: 115.895Ft?
Clew height: 0.328Ft
Mast rake: 0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	2.813Ft	0.540Ft	70.095?	17.408Ft	18.621Ft	Full
60.000%	4.773Ft	0.702Ft	70.095?	13.056Ft	13.966Ft	Full
40.000%	6.385Ft	0.619Ft	70.095?	8.704Ft	9.311Ft	Full
20.000%	7.711Ft	0.357Ft	70.095?	4.353Ft	4.655Ft	Full

Reefing Points

1, Luff: 2.874Ft ; Leech: 2.997Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Draft Stripes

1, Luff: 7.185Ft ; Leech: 7.317Ft ;
2, Luff: 14.372Ft ; Leech: 14.982Ft ;

Luff Slides

1, Position: 2.176Ft
2, Position: 4.353Ft
3, Position: 6.528Ft
4, Position: 8.704Ft
5, Position: 10.880Ft
6, Position: 15.232Ft
7, Position: 19.594Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.440Ft])	Before BSeam
21.779Ft,	0.000Ft	100% (21.780Ft) :	0.000Ft
19.065Ft,	-0.058Ft	90% (19.603Ft) :	0.094Ft
16.334Ft,	-0.099Ft	80% (17.424Ft) :	0.179Ft
13.597Ft,	-0.117Ft	70% (15.246Ft) :	0.233Ft
10.889Ft,	-0.119Ft	60% (13.068Ft) :	0.259Ft
8.115Ft,	-0.110Ft	50% (10.890Ft) :	0.265Ft
5.445Ft,	-0.088Ft	40% (8.712Ft) :	0.250Ft
2.714Ft,	-0.050Ft	30% (6.534Ft) :	0.215Ft
0.000Ft,	0.000Ft	20% (4.356Ft) :	0.159Ft
		10% (2.178Ft) :	0.083Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.000Ft	0.000Ft	0.082Ft

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

Total Seam Lengths (Ft)

Horizontal	35.45
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	115.43	1,2,3,4,5 6,7

