

Mainsail: 8000410 Richard-1 Sirius 22 mainsail.des

Design Info
=====

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

Initial Design Date: 2/5/2024
Boat:
Sirius 22
Client:

Comments:

Design Data
=====

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%	2.208Ft	0.619Ft	70.095?	8.704Ft	9.311Ft	
20.000%	2.208Ft	0.357Ft	70.095?	4.353Ft	4.655Ft	

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

Mainsail: 8000410 Richard-1 Sirius 22 mainsail.des

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

