

# Mainsail: 8000410 Richard-1 Sirius 22 mainsailV2.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: 18/5/2024  
Boat:  
Sirius 22  
Client:

Comments:

Design Data  
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Main

Measurements

Luff geodesic: 6.639m  
Leech geodesic: 7.120m  
Foot geodesic: 2.690m  
Head geodesic: 0.115m  
Upper width (MUW): 0.535m  
Three-quarter width (MTW): 0.964m  
Half width (MHW): 1.670m  
Quarter width (MQW): 2.237m  
Foot median: 6.835m  
ORC Mainsail area: 10.407m?  
Surface area: 10.767m?  
Clew height: 0.100m  
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.857m	0.165m	70.095?	5.306m	5.676m	Full
60.000%	1.455m	0.214m	70.095?	3.979m	4.257m	Full
40.000%	1.946m	0.189m	70.095?	2.653m	2.838m	Full
20.000%	2.350m	0.109m	70.095?	1.327m	1.419m	Full

Reefing Points

1, Luff: 0.876m ; Leech: 0.913m ; Offset: 0.000m ; Number Eyelets: 2  
2, Luff: 1.759m ; Leech: 1.835m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 2.190m ; Leech: 2.230m ;  
2, Luff: 4.380m ; Leech: 4.566m ;

Luff Slides

1, Position: 0.663m  
2, Position: 1.327m  
3, Position: 1.990m  
4, Position: 2.653m  
5, Position: 3.316m  
6, Position: 4.643m  
7, Position: 5.972m

Luff Curve

		Fanned Luff (@ 5.00% [0.134m])	Before BSeam
6.638m,	0.000m	100% (6.639m) :	0.000m
5.811m,	-0.018m	90% (5.975m) :	0.011m
4.979m,	-0.030m	80% (5.311m) :	0.020m
4.144m,	-0.036m	70% (4.647m) :	0.025m
3.319m,	-0.036m	60% (3.983m) :	0.026m
2.473m,	-0.034m	50% (3.319m) :	0.026m
1.660m,	-0.027m	40% (2.655m) :	0.024m
0.827m,	-0.015m	30% (1.992m) :	0.021m
0.000m,	0.000m	20% (1.328m) :	0.015m
		10% (0.664m) :	0.007m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.000m	0.000m	0.025m

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

Total Seam Lengths (m)

Horizontal	10.80
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	10.72	1,2,3,4,5 6,7

