

# Mainsail: 8000425 Jan-1 Sadler 25 MK III fullbattmain.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000425 Jan Sadl

Initial Design Date: 2/5/2024  
Boat:  
Sadler 25 MK III  
Client:

Comments:

Design Data  
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Main

Measurements

Luff geodesic: 7.939m  
Leech geodesic: 8.305m  
Foot geodesic: 2.564m  
Head geodesic: 0.115m  
Upper width (MUW): 0.534m  
Three-quarter width (MTW): 0.948m  
Half width (MHW): 1.631m  
Quarter width (MQW): 2.158m  
Foot median: 8.102m  
ORC Mainsail area: 12.061m?  
Surface area: 12.377m?  
Clew height: 0.100m  
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.830m	0.166m	74.337?	6.346m	6.621m	Full
60.000%	1.418m	0.228m	74.337?	4.758m	4.966m	Full
40.000%	1.881m	0.196m	74.337?	3.170m	3.310m	Full
20.000%	2.258m	0.116m	74.337?	1.583m	1.655m	Full

Reefing Points

1, Luff: 0.968m ; Leech: 0.994m ; Offset: 0.000m ; Number Eyelets: 2  
2, Luff: 2.024m ; Leech: 2.078m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 2.619m ; Leech: 2.638m ;  
2, Luff: 5.239m ; Leech: 5.368m ;

Luff Slides

1, Position: 0.792m  
2, Position: 2.377m  
3, Position: 3.964m  
4, Position: 5.552m  
5, Position: 7.142m

Luff Curve

		Fanned Luff (@ 5.00% [0.128m])	Before BSeam
7.939m,	0.000m	100% (7.939m) :	0.000m
6.949m,	-0.018m	90% (7.145m) :	0.011m
5.954m,	-0.031m	80% (6.351m) :	0.057m
4.956m,	-0.037m	70% (5.557m) :	0.075m
3.969m,	-0.038m	60% (4.763m) :	0.084m
2.958m,	-0.035m	50% (3.970m) :	0.086m
1.985m,	-0.028m	40% (3.176m) :	0.081m
0.989m,	-0.016m	30% (2.382m) :	0.069m
0.000m,	0.000m	20% (1.588m) :	0.050m
		10% (0.794m) :	0.007m
		0% (0.000m) :	0.000m

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

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

Total Seam Lengths (m)

Horizontal	12.12
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	12.36	1,2,3,4,5 6,7,8

