

# Mainsail: 8000425 Jan-1 Sadler 25 MK III fullbattmainV2.des

## Design Info

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Initial Design Date: 9/5/2024  
 Boat:  
 Sadler 25 MK III  
 Client:

## Design File:

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

Comments:

## Design Data

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### Main

#### Measurements

Luff geodesic: 7.939m  
 Leech geodesic: 8.307m  
 Foot geodesic: 2.564m  
 Head geodesic: 0.115m  
 Foot(Inc Luff Rope): 2.604m  
 Head(Inc Luff Rope): 0.155m  
 Upper width (MUW): 0.585m  
 Three-quarter width (MTW): 1.010m  
 Half width (MHW): 1.699m  
 Quarter width (MQW): 2.216m  
 Foot median: 8.103m  
 ORC Mainsail area: 12.454m?  
 Surface area: 12.536m?  
 Clew height: 0.100m  
 Mast rake: 0.214m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.853m	0.188m	74.256?	6.347m	6.621m	Full
60.000%	1.450m	0.257m	74.256?	4.760m	4.966m	Full
40.000%	1.908m	0.222m	74.256?	3.174m	3.310m	Full
20.000%	2.275m	0.132m	74.256?	1.587m	1.655m	Full

### Reefing Points

1, Luff: 0.889m ; Leech: 0.911m ; Offset: 0.000m ; Number Eyelets: 3  
 2, Luff: 1.944m ; Leech: 1.992m ; Offset: 0.000m ; Number Eyelets: 3

### Draft Stripes

1, Luff: 2.619m ; Leech: 2.686m ;  
 2, Luff: 5.239m ; Leech: 5.394m ;

### Luff Slides

1, Position: 0.528m  
 2, Position: 1.127m  
 3, Position: 2.189m  
 4, Position: 2.692m  
 5, Position: 3.700m  
 6, Position: 4.229m  
 7, Position: 5.287m  
 8, Position: 5.816m  
 9, Position: 6.877m  
 10, Position: 7.408m

### 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) :	0.020m
4.956m,	-0.037m	70% (5.557m) :	0.025m
3.969m,	-0.038m	60% (4.763m) :	0.026m
2.958m,	-0.035m	50% (3.970m) :	0.026m
1.985m,	-0.028m	40% (3.176m) :	0.024m
0.989m,	-0.016m	30% (2.382m) :	0.020m
0.000m,	0.000m	20% (1.588m) :	0.015m
		10% (0.794m) :	0.007m
		0% (0.000m) :	0.000m

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

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

Total Seam Lengths (m)

Horizontal	12.24
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	12.52	1,2,3,4,5 6,7,8

