

# Mainsail: 8000519 Soren-1 Dehler 35CR fullbattmain.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000519 Soren D

Initial Design Date: 29/5/2024  
Boat:  
Dehler 35CR  
Client:

Comments:

Design Data  
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Main

Measurements

Luff geodesic:	13.018m
Leech geodesic:	13.775m
Foot geodesic:	4.732m
Head geodesic:	0.135m
Upper width (MUW):	0.880m
Three-quarter width (MTW):	1.598m
Half width (MHW):	2.825m
Quarter width (MQW):	3.858m
Foot median:	13.319m
ORC Mainsail area:	34.886m?
Surface area:	35.634m?
Clew height:	-0.100m
Mast rake:	0.400m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
81.700%	1.287m	0.222m	71.884?	10.631m	11.219m	Full
62.000%	2.318m	0.287m	71.884?	8.068m	8.514m	Full
41.750%	3.218m	0.244m	71.884?	5.433m	5.733m	Full
21.000%	4.022m	0.142m	71.884?	2.733m	2.884m	Full

Reefing Points

1, Luff: 1.588m ; Leech: 1.658m ; Offset: 0.000m ; Number Eyelets: 0  
2, Luff: 3.319m ; Leech: 3.460m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 4.295m ; Leech: 4.483m ;  
2, Luff: 8.590m ; Leech: 8.977m ;

Luff Slides

- 1, Position: 0.979m
- 2, Position: 2.028m
- 3, Position: 3.770m
- 4, Position: 4.628m
- 5, Position: 6.311m
- 6, Position: 7.190m
- 7, Position: 8.922m
- 8, Position: 9.777m
- 9, Position: 11.427m
- 10, Position: 12.222m

Luff Curve

		Fanned Luff (@ 5.00% [0.236m])	Before BSeam
13.018m,	0.000m	100% (13.018m) :	0.000m
9.763m,	-0.050m	90% (11.716m) :	0.048m
6.509m,	-0.062m	80% (10.414m) :	0.090m
3.254m,	-0.045m	70% (9.113m) :	0.119m
0.000m,	0.000m	60% (7.811m) :	0.135m
		50% (6.509m) :	0.139m
		40% (5.207m) :	0.132m
		30% (3.905m) :	0.113m
		20% (2.604m) :	0.083m
		10% (1.302m) :	0.041m
		0% (0.000m) :	0.000m

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## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.015m	0.038m
Zone: 1/b	0.038m	0.015m	0.038m
Zone: 2/a	0.038m	0.015m	0.038m
Zone: 2/b	0.038m	0.015m	0.038m
Zone: 3	0.038m	0.015m	0.038m

## Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

## Total Seam Lengths (m)

Horizontal	5.91
Radial/Vertical	108.43
Bi-Radial Split	8.66

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	35.66	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1b\1,1b\2,1b\3,1b\4,1b\5 1b\6,1b\7,1b\8,1b\9,1b\10 1b\11,2\1,2\2,2\3,2b\4 2b\3,2b\2,2b\1,3\1,3\2 3\3,3\4,3\5

