

# Mainsail: 5000230 Warren mainsail V2.des

## Design Info

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## Design File:

F:\Dropbox (个人)\Fareast Sails\2021\5000230 Warren\5000230 Warren mainsail V2.des

Initial Design Date: 5/3/2021

Boat:

Client:

Comments:

## Design Data

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### Main

#### Measurements

Luff geodesic:	16.100m
Leech geodesic:	16.902m
Foot geodesic:	6.600m
Head geodesic:	0.220m
Upper width (MUW):	1.584m
Three-quarter width (MTW):	2.920m
Half width (MHW):	4.827m
Quarter width (MQW):	6.016m
Foot median:	16.421m
ORC Mainsail area:	69.148m?
Surface area:	72.859m?
Clew height:	0.493m
Mast rake:	0.568m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
94.211%	0.983m	0.343m	72.803?	15.146m	15.795m	Full
83.333%	2.462m	1.018m	72.803?	13.395m	13.971m	Full
66.667%	3.951m	1.317m	72.803?	10.715m	11.177m	Full
50.000%	5.007m	1.275m	72.803?	8.035m	8.383m	Full
33.333%	5.821m	1.080m	72.803?	5.356m	5.588m	Full
16.667%	6.298m	0.615m	72.803?	2.677m	2.794m	Full

### Reefing Points

1, Luff: 2.090m ; Leech: 2.108m ; Offset: 0.000m ; Number Eyelets: 0  
 2, Luff: 4.825m ; Leech: 4.870m ; Offset: 0.000m ; Number Eyelets: 0

### Luff Curve

		Fanned Luff (@ 5.00% [0.328m])	Before BSeam
16.099m,	0.000m	100% (16.100m) :	0.000m
14.093m,	-0.034m	90% (14.491m) :	0.017m
12.075m,	-0.058m	80% (12.880m) :	0.033m
10.051m,	-0.071m	70% (11.270m) :	0.042m
8.050m,	-0.073m	60% (9.660m) :	0.045m
5.999m,	-0.068m	50% (8.050m) :	0.045m
4.025m,	-0.054m	40% (6.440m) :	0.041m
2.006m,	-0.031m	30% (4.830m) :	0.034m
0.000m,	0.000m	20% (3.220m) :	0.025m
		10% (1.611m) :	0.012m
		0% (0.000m) :	0.000m

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

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

Total Seam Lengths (m)

Horizontal	58.64
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	72.87	1\1, 1b\1, 2\1, 2\2, 2\3 2\4, 2\5, 2\6, 2\7, 2\8 2\9, 2\10, 2\11, 2\12

