

# Mainsail: 5000111 Ulrik.des

Design Info  
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Design File:  
F:\Dropbox (个人)\Fareast Sails\2021\5000111 Ulrik\5000111 Ulrik.des

Initial Design Date: 5/2/2021  
Boat:

Comments:

Client:

Design Data  
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Main

## Measurements

Luff geodesic: 13.440m  
Leech geodesic: 14.211m  
Foot geodesic: 4.970m  
Head geodesic: 0.115m  
Upper width (MUW): 0.910m  
Three-quarter width (MTW): 1.701m  
Half width (MHW): 3.054m  
Quarter width (MQW): 4.100m  
Foot median: 13.795m  
ORC Mainsail area: 38.296m?  
Surface area: 39.370m?  
Clew height: 0.100m  
Mast rake: 0.000m

## Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.461m	0.268m	71.519?	10.747m	11.327m	Full
60.000%	2.624m	0.370m	71.519?	8.060m	8.496m	Full
40.000%	3.544m	0.317m	71.519?	5.373m	5.664m	Full
20.000%	4.301m	0.183m	71.519?	2.687m	2.832m	Full

## Reefing Points

1, Luff: 2.015m ; Leech: 2.098m ; Offset: 0.000m ; Number Eyelets: 3  
2, Luff: 4.031m ; Leech: 4.197m ; Offset: 0.000m ; Number Eyelets: 3  
3, Luff: 6.047m ; Leech: 6.301m ; Offset: 0.000m ; Number Eyelets: 2

## Luff Curve

Position	Depth	Fanned Luff (@ 5.00% [0.247m])	Before BSeam
13.440m,	0.000m	100% (13.440m) :	0.000m
11.765m,	-0.028m	90% (12.096m) :	0.053m
10.080m,	-0.049m	80% (10.752m) :	0.104m
8.390m,	-0.059m	70% (9.408m) :	0.144m
6.720m,	-0.061m	60% (8.064m) :	0.167m
5.008m,	-0.057m	50% (6.720m) :	0.171m
3.360m,	-0.045m	40% (5.376m) :	0.156m
1.675m,	-0.026m	30% (4.032m) :	0.127m
0.000m,	0.000m	20% (2.688m) :	0.087m
		10% (1.344m) :	0.042m
		0% (0.000m) :	0.000m

## Section Data

Position	Camber	Draft	Twist	Entry	Exit	Roach	Fwd Camb	Aft Camb
100.00%	6.616%	40.694%	18.989?	28.511?	-10.923?	0.000m	5.489%	4.846%
80.00%	11.846%	41.325%	15.191?	39.315?	-16.808?	0.000m	9.544%	8.554%
60.00%	13.500%	41.957%	11.394?	42.120?	-19.352?	0.000m	10.862%	9.772%
40.00%	11.945%	42.589%	7.596?	38.578?	-16.091?	0.000m	9.674%	8.532%
20.00%	8.445%	43.221%	3.798?	30.264?	-11.389?	0.000m	6.956%	5.996%
10.00%	6.231%	43.537%	1.899?	24.177?	-7.945?	0.000m	5.154%	4.348%
0.00%	3.219%	43.853%	0.000?	16.209?	-4.033?	0.000m	2.785%	2.209%

## Chord Data

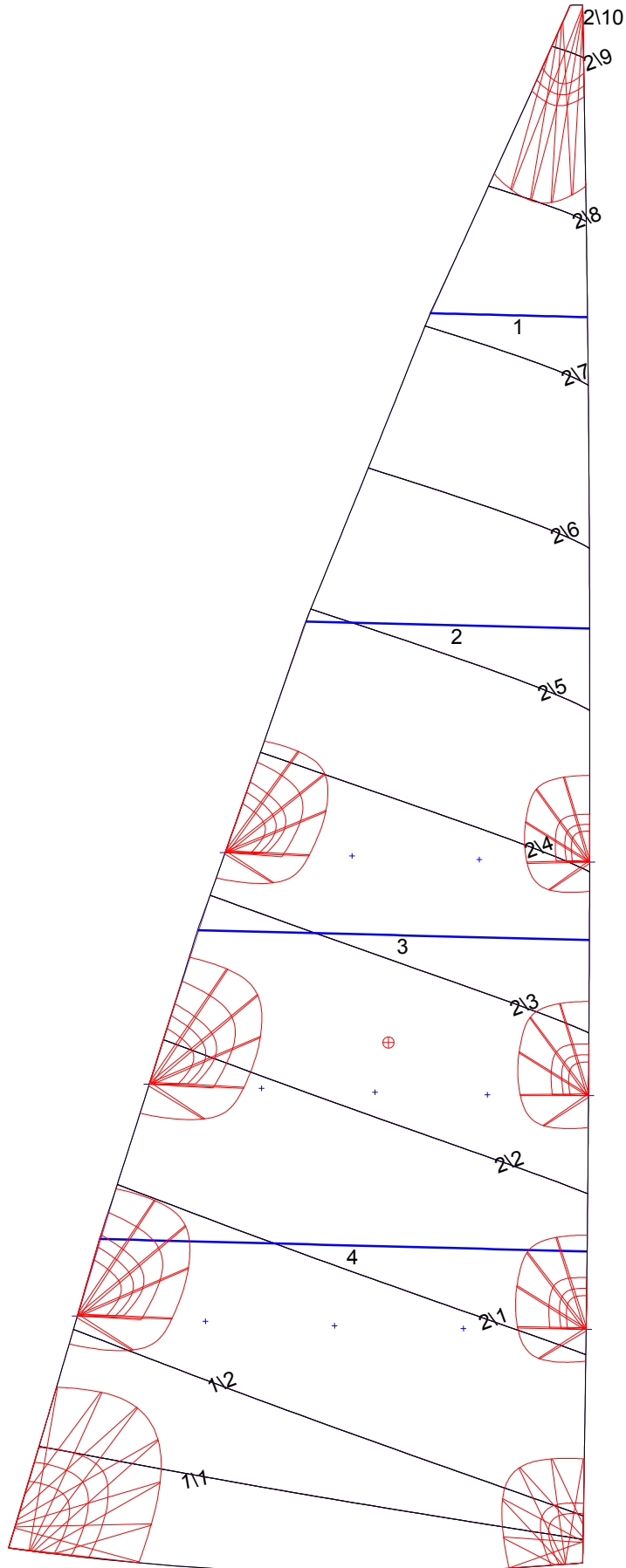
Luff P : 13.4396m  
Foot E : 4.9508m  
Leech : 14.1759m  
Headboard width : 0.1135m

Include Headboard in Diagonal: Diagonal from Outer End of Headboard

## Fanned Foot Curve Depths

25.0%	50.0%	75.0%
0.0890m	0.1241m	0.0934m

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## Seam Allowances

	Split	Radial	Cross
Zone: 1	0.000m	0.000m	0.025m
Zone: 2	0.000m	0.000m	0.025m

## Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

## Total Seam Lengths (m)

Horizontal	32.47
Radial/Vertical	0.00
Bi-Radial Split	0.00

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	39.41	11,12,21,22,23 24,25,26,27,28 29,210