

# Mainsail: 5000114-Main-1.des

Design Info  
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Design File:  
F:\Dropbox (个人)\Fareast Sails\2021\5000114 Torodd-1-2\5000114-Main-1.des

Initial Design Date: 1/2/2021  
Boat:

Comments:

Client:

Design Data  
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## Main

### Measurements

Luff geodesic: 13.670m  
Leech geodesic: 14.383m  
Foot geodesic: 4.840m  
Head geodesic: 0.115m  
Upper width (MUW): 0.907m  
Three-quarter width (MTW): 1.691m  
Half width (MHW): 3.006m  
Quarter width (MQW): 4.006m  
Foot median: 14.030m  
ORC Mainsail area: 38.213m?  
Surface area: 39.278m?  
Clew height: 0.100m  
Mast rake: 0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.450m	0.256m	72.325?	10.929m	11.467m	Full
60.000%	2.591m	0.352m	72.325?	8.196m	8.600m	Full
40.000%	3.467m	0.293m	72.325?	5.464m	5.734m	Full
20.000%	4.198m	0.167m	72.325?	2.732m	2.867m	Full

### Reefing Points

1, Luff: 1.913m ; Leech: 1.987m ; Offset: 0.000m ; Number Eyelets: 3  
2, Luff: 3.826m ; Leech: 3.974m ; Offset: 0.000m ; Number Eyelets: 3  
3, Luff: 5.739m ; Leech: 5.961m ; Offset: 0.000m ; Number Eyelets: 3

### Luff Curve

Position	Depth	Fanned Luff (@ 5.00% [0.241m])	Before BSeam
13.669m,	0.000m	100% (13.670m) :	0.000m
11.966m,	-0.048m	90% (12.303m) :	0.067m
10.252m,	-0.083m	80% (10.936m) :	0.130m
8.222m,	-0.100m	70% (9.569m) :	0.178m
6.834m,	-0.097m	60% (8.202m) :	0.203m
5.093m,	-0.086m	50% (6.835m) :	0.203m
3.417m,	-0.068m	40% (5.468m) :	0.182m
1.703m,	-0.039m	30% (4.101m) :	0.148m
0.000m,	0.000m	20% (2.734m) :	0.104m
		10% (1.367m) :	0.052m
		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	5.498%	4.855%
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	10.861%	9.773%
40.00%	11.945%	42.589%	7.596?	38.578?	-16.091?	0.000m	9.674%	8.533%
20.00%	8.445%	43.221%	3.798?	30.264?	-11.389?	0.000m	6.957%	5.996%
10.00%	6.231%	43.537%	1.899?	24.177?	-7.945?	0.000m	5.154%	4.349%
0.00%	3.219%	43.853%	0.000?	16.209?	-4.033?	0.000m	2.785%	2.209%

### Chord Data

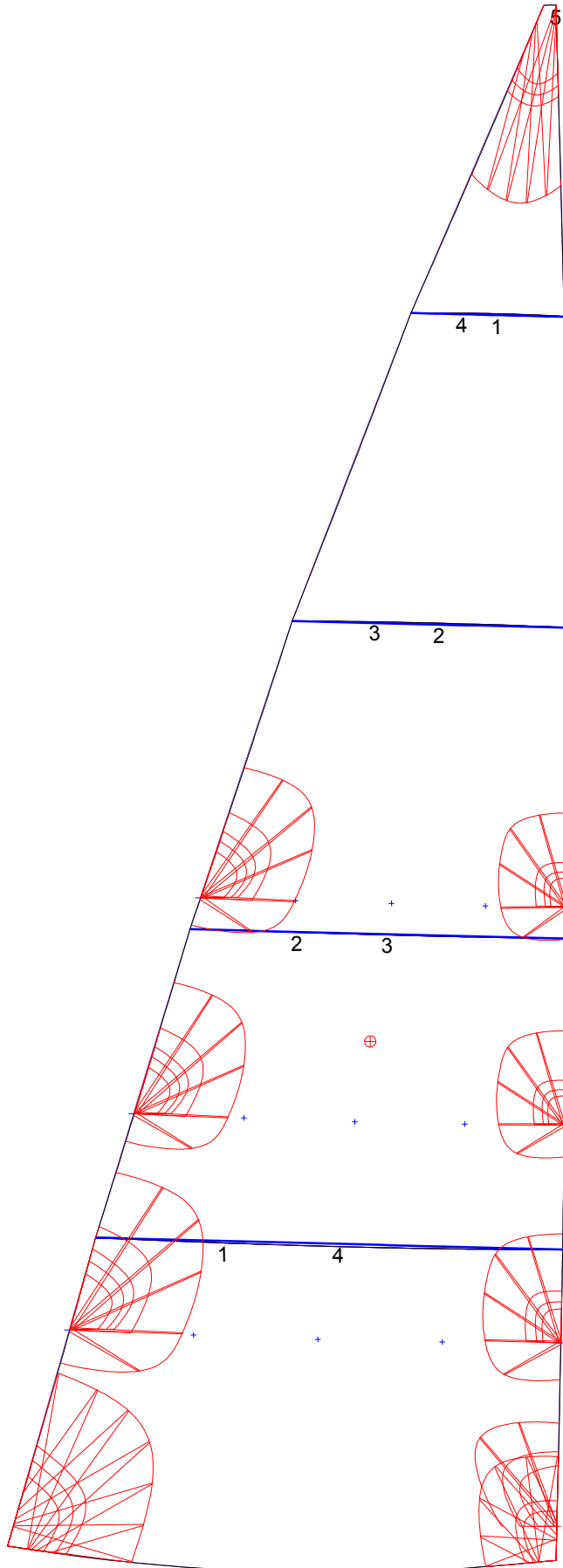
Luff P : 13.6689m  
Foot E : 4.8208m  
Leech : 14.3308m  
Headboard width : 0.1135m

Include Headboard in Diagonal: Diagonal from Outer End of Headboard

### Fanned Foot Curve Depths

25.0%	50.0%	75.0%
0.1071m	0.1484m	0.1111m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.000m	0.000m	0.060m

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

Total Seam Lengths (m)

Horizontal	11.71
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	39.35	1,2,3,4,5