

Mainsail: 5000116 Mark.des

Design Info
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Design File:
F:\Dropbox (个人)\Fareast Sails\2021\5000116 Mark\5000116 Mark.des

Initial Design Date: 5/2/2021
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 9.650m
Leech geodesic: 10.111m
Foot geodesic: 3.310m
Head geodesic: 0.115m
Upper width (MUW): 0.644m
Three-quarter width (MTW): 1.176m
Half width (MHW): 2.071m
Quarter width (MQW): 2.753m
Foot median: 9.793m
ORC Mainsail area: 18.604m?
Surface area: 18.934m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.693m	0.193m	73.080?	7.715m	8.062m	
60.000%	0.990m	0.270m	73.080?	5.786m	6.047m	
40.000%	0.990m	0.233m	73.080?	3.857m	4.031m	
20.000%	0.850m	0.136m	73.080?	1.928m	2.016m	

Reefing Points

1, Luff: 1.447m ; Leech: 1.494m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 2.894m ; Leech: 2.990m ; Offset: 0.000m ; Number Eyelets: 2

Luff Curve

		Fanned Luff (@ 5.00% [0.165m])	Before BSeam
9.650m,	0.000m	100% (9.650m) :	0.000m
8.447m,	-0.020m	90% (8.685m) :	0.011m
7.237m,	-0.035m	80% (7.720m) :	0.069m
6.024m,	-0.042m	70% (6.755m) :	0.095m
4.825m,	-0.044m	60% (5.790m) :	0.109m
3.596m,	-0.041m	50% (4.825m) :	0.111m
2.412m,	-0.032m	40% (3.860m) :	0.101m
1.202m,	-0.018m	30% (2.895m) :	0.082m
0.000m,	0.000m	20% (1.930m) :	0.057m
		10% (0.965m) :	0.028m
		0% (0.000m) :	0.000m

Section Data

Position	Camber	Draft	Twist	Entry	Exit	Roach	Fwd Camb	Aft Camb
100.00%	6.165%	40.694%	18.989?	28.511?	-10.923?	0.000m	5.192%	4.558%
80.00%	11.039%	41.326%	15.191?	39.314?	-16.808?	0.000m	9.033%	8.058%
60.00%	12.580%	41.957%	11.394?	42.120?	-19.352?	0.000m	10.282%	9.220%
40.00%	11.131%	42.589%	7.596?	38.578?	-16.091?	0.000m	9.168%	8.051%
20.00%	7.870%	43.221%	3.798?	30.264?	-11.389?	0.000m	6.604%	5.658%
10.00%	5.807%	43.537%	1.899?	24.177?	-7.945?	0.000m	4.896%	4.101%
0.00%	3.000%	43.853%	0.000?	16.209?	-4.033?	0.000m	2.651%	2.082%

Chord Data

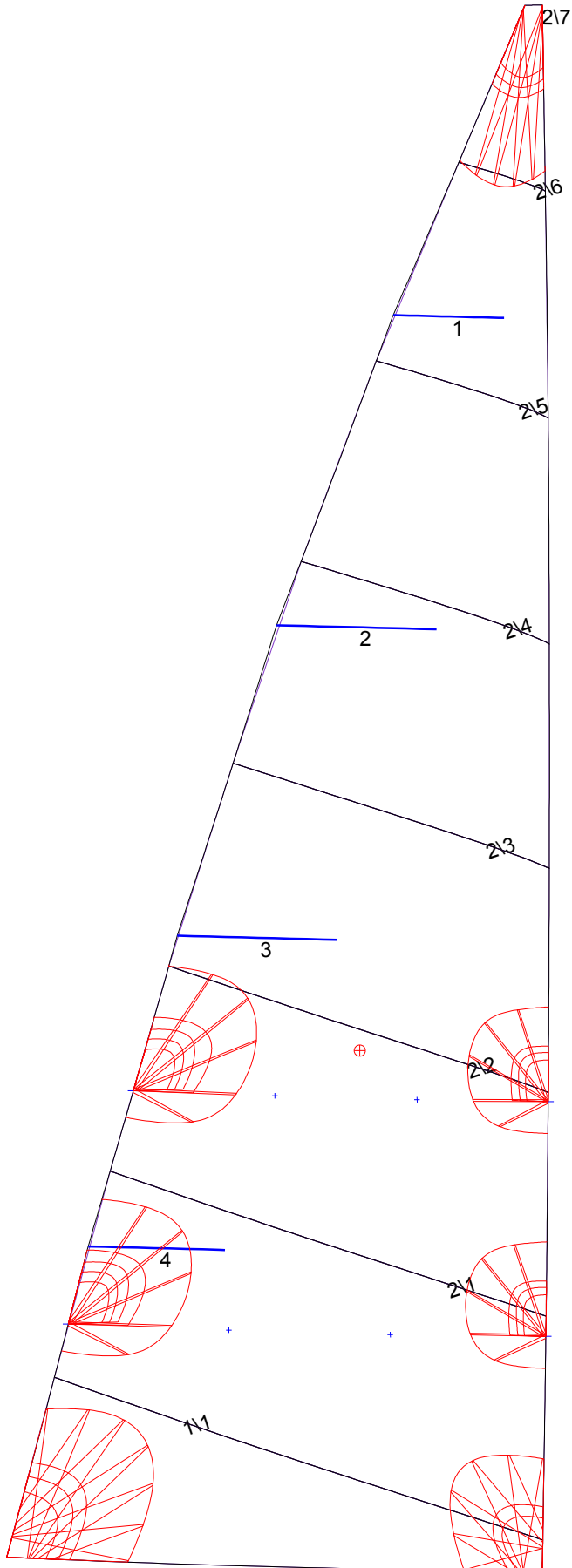
Luff P : 9.6497m
Foot E : 3.2998m
Leech : 10.0645m
Headboard width : 0.1136m

Include Headboard in Diagonal: Diagonal from Outer End of Headboard

Fanned Foot Curve Depths

25.0% 50.0% 75.0%
0.0015m 0.0042m 0.0041m

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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

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	14.28
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	18.93	1/1,2/1,2/2,2/3,2/4 2/5,2/6,2/7