

Mainsail: 5000905 Víctor Main-1.des

Design Info
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Design File:
E:\Dropbox\Fareast Sails\2021\5000905 Víctor\5000905 Víctor Main-1.des

Initial Design Date: 3/12/2021
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 11.940m
Leech geodesic: 12.411m
Foot geodesic: 3.700m
Head geodesic: 0.089m
Upper width (MUW): 0.675m
Three-quarter width (MTW): 1.253m
Half width (MHW): 2.253m
Quarter width (MQW): 3.034m
Foot median: 12.140m
ORC Mainsail area: 25.182m?
Surface area: 25.637m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.775m	0.184m	74.707?	9.546m	9.901m	
60.000%	1.107m	0.250m	74.707?	7.157m	7.426m	
40.000%	1.107m	0.208m	74.707?	4.768m	4.951m	
20.000%	0.923m	0.115m	74.707?	2.380m	2.475m	

Reefing Points

1, Luff: 1.790m ; Leech: 1.845m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 3.581m ; Leech: 3.690m ; Offset: 0.000m ; Number Eyelets: 2

Luff Curve

Position	Depth	Fanned Luff (@ 5.00% [0.184m])	Before BSeam
11.940m,	0.000m	100% (11.940m) :	0.000m
8.955m,	-0.045m	90% (10.746m) :	0.015m
5.970m,	-0.060m	80% (9.552m) :	0.071m
2.985m,	-0.045m	70% (8.358m) :	0.102m
0.000m,	0.000m	60% (7.164m) :	0.123m
		50% (5.970m) :	0.127m
		40% (4.776m) :	0.117m
		30% (3.582m) :	0.097m
		20% (2.388m) :	0.067m
		10% (1.194m) :	0.031m
		0% (0.000m) :	0.000m

Section Data

Position	Camber	Draft	Twist	Entry	Exit	Roach	Fwd Camb	Aft Camb
100.00%	2.366%	40.694%	19.969?	24.769?	-7.857?	0.000m	2.298%	2.118%
80.00%	8.951%	41.325%	15.975?	44.141?	-16.691?	0.000m	7.305%	6.962%
60.00%	11.827%	41.957%	11.982?	52.762?	-20.982?	0.000m	9.440%	9.013%
40.00%	10.628%	42.589%	7.988?	51.239?	-19.071?	0.000m	8.488%	8.062%
20.00%	7.588%	43.221%	3.994?	44.917?	-14.686?	0.000m	6.171%	5.794%
10.00%	5.285%	43.537%	1.997?	38.590?	-10.999?	0.000m	4.423%	4.077%
0.00%	2.300%	43.853%	0.000?	28.142?	-7.132?	0.000m	2.148%	1.898%

Chord Data

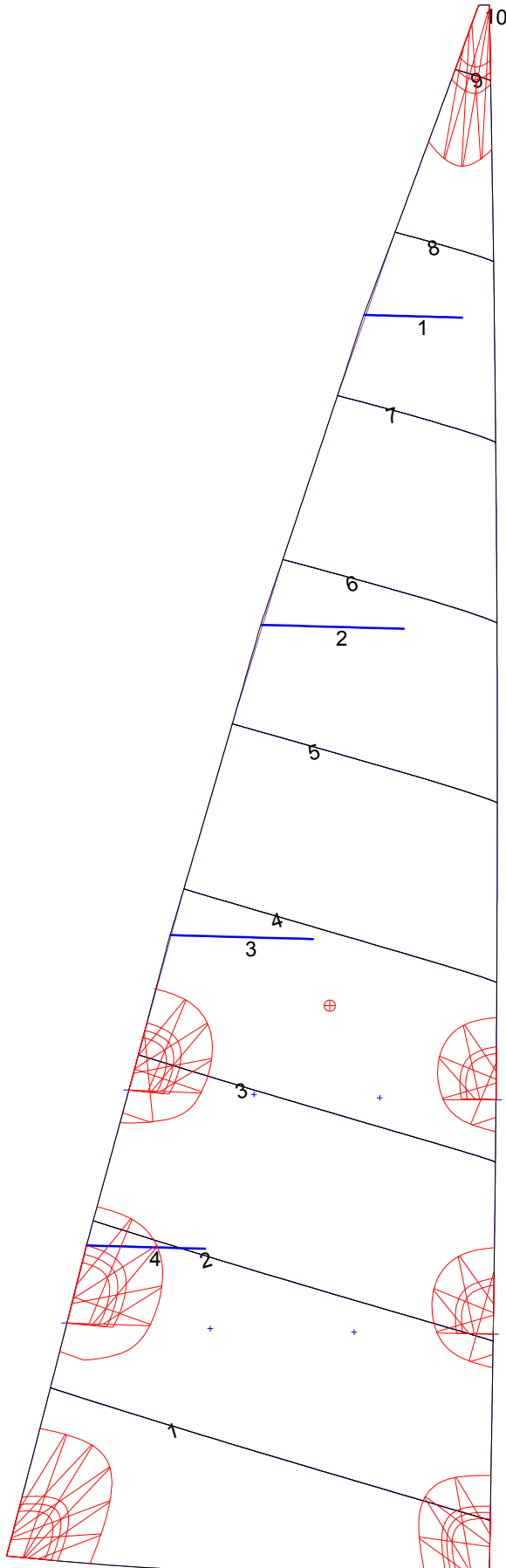
Luff P : 11.9395m
Foot E : 3.6893m
Leech : 12.4109m
Headboard width : 0.0888m

Include Headboard in Diagonal: Diagonal from Outer End of Headboard

Fanned Foot Curve Depths

25.0% 50.0% 75.0%
0.0501m 0.0672m 0.0491m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.000m	0.000m	0.025m

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

Total Seam Lengths (m)

Horizontal	18.82
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	25.65	1,2,3,4,5 6,7,8,9,10