

Asymmetric: 7000213 Soren A3 asy.des

Design Info
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Design File:
F:\Dropbox\Dropbox-20221019\Dropbox20221213\Dropbox\Fareast Sails\2023 Order\Need Confrim Order\7000213 S

Initial Design Date: 18/2/2023
Boat:

Comments:

Client:

Design Data
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Asymmetric

Measurements

Luff length (SLU):	15.750m	
Leech length (SLE):	14.579m	
Foot length (SFL):	7.500m	
Headboard Width:	0.010m	
Three-quarter width:	4.401m	Closest Pt: 3.892m
Half width (SHW):	7.560m	Closest Pt: 7.167m
Quarter width:	8.094m	Closest Pt: 8.313m
ORC Area:	95.384m?	
IRC Area:	95.003m?	
Surface Area:	98.388m?	
Hoist height:	15.360m	
J:	5.160m	

Luff Curve		Fanned Luff (@ 5.00% [0.319m])	Before BSeam
10.349m,	0.000m	100% (15.679m) :	-0.000m 0.000m
7.762m,	0.000m	88% (13.748m) :	-0.120m 0.713m
5.175m,	0.000m	76% (11.915m) :	-0.243m 1.340m
2.587m,	0.000m	65% (10.210m) :	-0.360m 1.793m
0.000m,	0.000m	55% (8.648m) :	-0.470m 1.985m
		46% (7.185m) :	-0.563m 1.957m
		37% (5.764m) :	-0.622m 1.739m
		28% (4.350m) :	-0.620m 1.378m
		19% (2.924m) :	-0.520m 0.942m
		9% (1.473m) :	-0.294m 0.486m
		0% (0.000m) :	0.000m 0.000m

Section Data

Position	Camber	Draft	Twist	Entry	Exit	Roach	Luff Off	Luff Roach	Fwd Camb	Aft Camb
100.00%	15.044%	45.760%	20.000?	56.175?	-47.482?	0.000m	0.000m	0.000m	12.600%	12.700%
74.98%	21.519%	45.840%	14.999?	42.000?	-38.000?	1.285m	1.077m	1.943m	16.824%	16.723%
49.96%	24.756%	45.750%	9.998?	55.000?	-45.000?	1.559m	1.446m	2.088m	19.088%	18.345%
25.00%	24.731%	45.253%	5.000?	65.000?	-46.000?	1.017m	1.095m	1.184m	19.910%	18.828%
0.00%	24.500%	44.750%	0.000?	58.000?	-47.862?	0.000m	0.000m	0.000m	20.077%	19.179%
-10.00%	23.939%	44.135%	-2.000?	70.847?	-60.635?	-0.440m	-0.530m	-0.506m	19.349%	17.962%

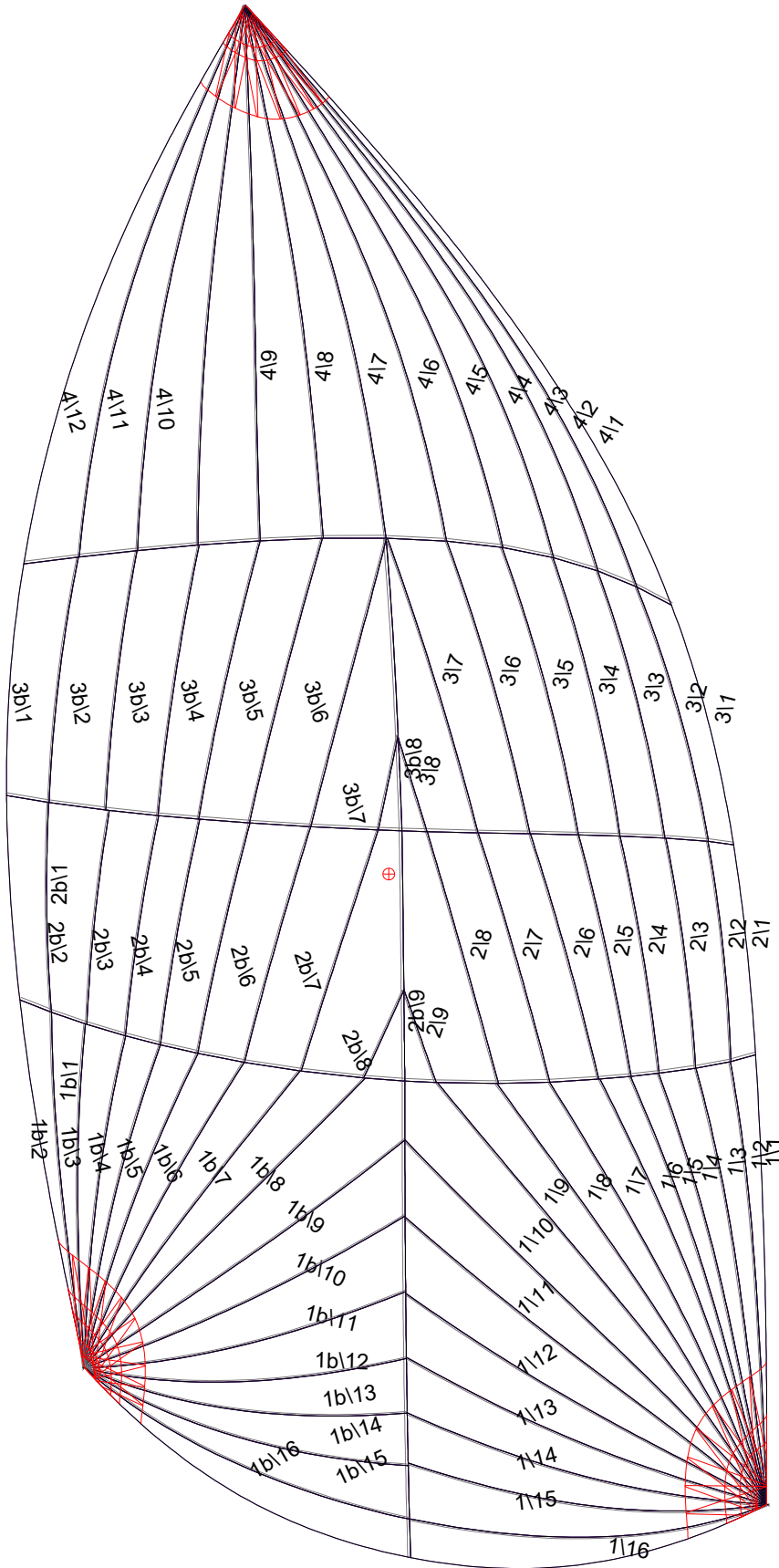
Chord Data

Luff : 14.8228m
Leech : 12.8121m
Foot : 6.4994m
Headboard width : 0.0100m

Fanned Foot Curve Depths

25.0%	50.0%	75.0%
0.2710m	0.4542m	0.3605m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.025m
Zone: 1/b	0.025m	0.015m	0.025m
Zone: 2/a	0.025m	0.015m	0.025m
Zone: 2/b	0.025m	0.015m	0.025m
Zone: 3/a	0.025m	0.015m	0.025m
Zone: 3/b	0.025m	0.015m	0.025m
Zone: 4	0.025m	0.015m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	23.24
Radial/Vertical	275.15
Bi-Radial Split	10.40

Materials

Material	Area (m ²)	Panels
Material 1	98.32	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1\13,1\14,1\15 1\16,1b\1,1b\2,1b\3,1b\4 1b\5,1b\6,1b\7,1b\8,1b\9 1b\10,1b\11,1b\12,1b\13,1b\14 1b\15,1b\16,2\1,2\2,2\3 2\4,2\5,2\6,2\7,2\8 2\9,2b\9,2b\8,2b\7,2b\6 2b\5,2b\4,2b\3,2b\2,2b\1 3\1,3\2,3\3,3\4,3\5 3\6,3\7,3\8,3b\8,3b\7 3b\6,3b\5,3b\4,3b\3,3b\2 3b\1,4\1,4\2,4\3,4\4 4\5,4\6,4\7,4\8,4\9 4\10,4\11,4\12