Mainsail: 5000207 Jon mainsail.des

Design Info
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Design File:
F:\Dropbox (个人)\Fareast Sails\2021\5000207 Jon\5000207 Jon mainsail.des

Comments:

Initial Design Date: 20/2/2021
Boat:

Client:

Design Data
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Main

Measurements

Luff geodesic:	10.132m
Leech geodesic:	10.593m
Foot geodesic:	3.444m
Head geodesic:	0.115m
Upper width (MUW):	0.627m
Three-quarter width (MTW):	1.142m
Half width (MHW):	2.050m
Quarter width (MQW):	2.794m
Foot median:	10.353m
ORC Mainsail area:	19.665m?
Surface area:	20.095m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.974m	0.126m	73.366?	8.101m	8.451m	Full
60.000%	1.742m	0.173m	73.366?	6.075m	6.338m	Full
40.000%	2.381m	0.144m	73.366?	4.050m	4.226m	Full
20.000%	2.937m	0.082m	73.366?	2.025m	2.113m	Full

Reefing Points

1, Luff: 1.519m ; Leech: 1.577m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 3.039m ; Leech: 3.154m ; Offset: 0.000m ; Number Eyelets: 2
3, Luff: 4.558m ; Leech: 4.731m ; Offset: 0.000m ; Number Eyelets: 2

Luff Curve

10.132m,	0.000m
8.869m,	-0.021m
7.599m,	-0.037m
6.325m,	-0.044m
5.066m,	-0.046m
3.775m,	-0.043m
2.533m,	-0.034m
1.263m,	-0.019m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.172m])		Before BSeam
100% (10.132m) :	0.000m	0.000m
90% (9.119m) :	0.012m	0.035m
80% (8.106m) :	0.023m	0.068m
70% (7.092m) :	0.030m	0.094m
60% (6.079m) :	0.033m	0.109m
50% (5.066m) :	0.032m	0.112m
40% (4.053m) :	0.030m	0.103m
30% (3.040m) :	0.025m	0.084m
20% (2.026m) :	0.018m	0.059m
10% (1.013m) :	0.009m	0.029m
0% (0.000m) :	0.000m	0.000m

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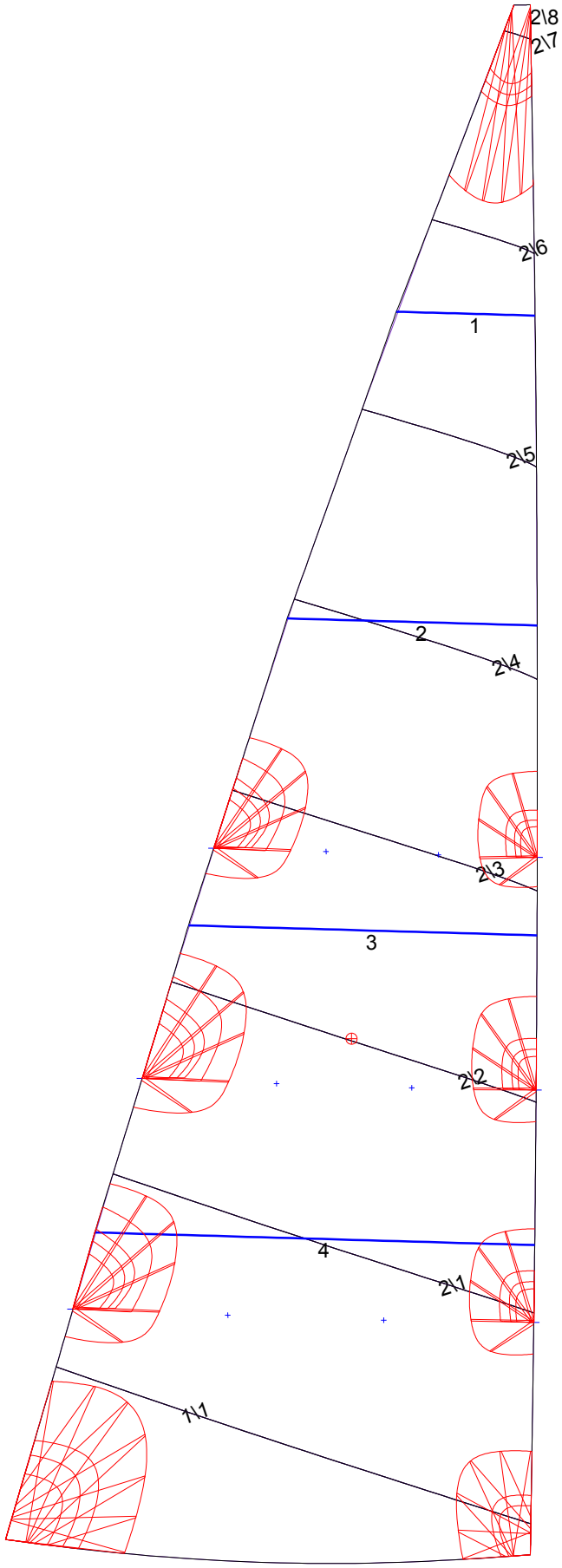

Seam Allowances

	Split	Radial	Cross
Zone: 1	0.025m	0.015m	0.025m
Zone: 2	0.025m	0.015m	0.025m

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	15.04
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m?	Panels
Material 1	20.11	1\1,2\1,2\2,2\3,2\4 2\5,2\6,2\7,2\8