Mainsail: 4001028 Travis mainsail.des

Design Info
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Design File:
F:\Dropbox (个人)\Fareast Sails\2020\4001028 Travis\4001028 Travis mainsail.des

Comments:

Initial Design Date: 13/11/2020
Boat:

Client:

Design Data
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Main

Measurements

Luff geodesic:	10.750m
Leech geodesic:	11.188m
Foot geodesic:	3.440m
Head geodesic:	0.115m
Upper width (MUW):	0.629m
Three-quarter width (MTW):	1.145m
Half width (MHW):	2.051m
Quarter width (MQW):	2.792m
Foot median:	10.966m
ORC Mainsail area:	20.868m?
Surface area:	21.320m?
Clew height:	0.030m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.974m	0.126m	74.228?	8.595m	8.929m	Full
60.000%	1.742m	0.173m	74.228?	6.446m	6.697m	Full
40.000%	2.380m	0.144m	74.228?	4.297m	4.464m	Full
20.000%	2.935m	0.082m	74.228?	2.148m	2.232m	Full

Reefing Points

1, Luff: 1.612m ; Leech: 1.667m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 3.224m ; Leech: 3.333m ; Offset: 0.000m ; Number Eyelets: 0
3, Luff: 4.836m ; Leech: 5.000m ; Offset: 0.000m ; Number Eyelets: 0

Luff Curve

10.750m,	0.000m
9.410m,	-0.023m
8.062m,	-0.039m
6.711m,	-0.047m
5.375m,	-0.049m
4.005m,	-0.045m
2.687m,	-0.036m
1.340m,	-0.021m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.171m])		Before BSeam
100% (10.750m) :	0.000m	0.000m
90% (9.675m) :	0.013m	0.036m
80% (8.600m) :	0.024m	0.070m
70% (7.525m) :	0.031m	0.097m
60% (6.450m) :	0.034m	0.112m
50% (5.375m) :	0.034m	0.114m
40% (4.300m) :	0.031m	0.105m
30% (3.225m) :	0.027m	0.086m
20% (2.150m) :	0.020m	0.060m
10% (1.075m) :	0.010m	0.030m
0% (0.000m) :	0.000m	0.000m

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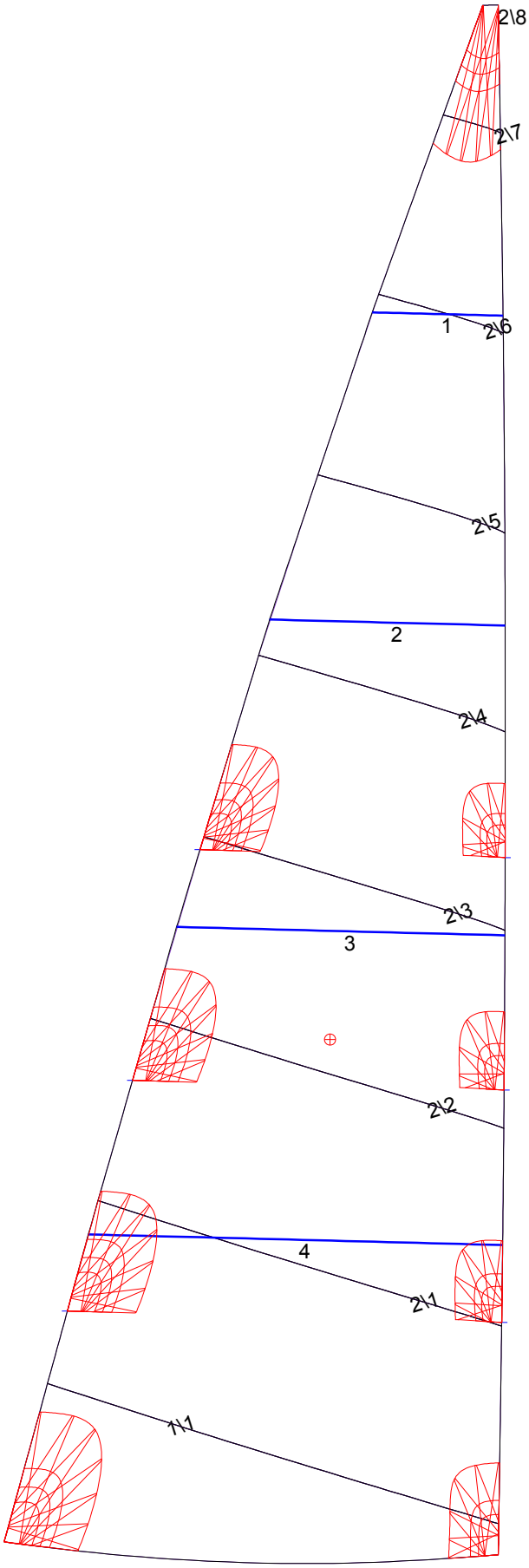

Seam Allowances

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

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	15.97
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m?	Panels
Material 1	21.34	1\1,2\1,2\2,2\3,2\4 2\5,2\6,2\7,2\8