Mainsail: 4001029 Scott main R1.des

Design Info
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Design File:
F:\Dropbox (个人)\Fareast Sails\2020\4001029 Scott\4001029 Scott main R1.des

Comments:

Initial Design Date: 3/11/2020
Boat:

Client:

Design Data
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Main

Measurements

Luff geodesic:	14.180m
Leech geodesic:	14.582m
Foot geodesic:	4.550m
Head geodesic:	0.115m
Upper width (MUW):	0.801m
Three-quarter width (MTW):	1.483m
Half width (MHW):	2.688m
Quarter width (MQW):	3.679m
Foot median:	14.367m
ORC Mainsail area:	36.101m?
Surface area:	36.709m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.254m	0.163m	76.353?	11.333m	11.637m	Full
60.000%	2.276m	0.225m	76.353?	8.498m	8.727m	Full
40.000%	3.128m	0.187m	76.353?	5.664m	5.818m	Full
20.000%	3.872m	0.107m	76.353?	2.831m	2.909m	Full

Reefing Points

1, Luff: 1.983m ; Leech: 2.032m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 3.542m ; Leech: 3.627m ; Offset: 0.000m ; Number Eyelets: 2

Luff Curve

14.180m,	0.000m
12.413m,	-0.030m
10.635m,	-0.051m
8.852m,	-0.062m
7.090m,	-0.064m
5.283m,	-0.060m
3.545m,	-0.048m
1.767m,	-0.027m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.226m])		Before BSeam
100% (14.180m) :	0.000m	0.000m
90% (12.763m) :	0.017m	0.047m
80% (11.344m) :	0.033m	0.092m
70% (9.926m) :	0.042m	0.128m
60% (8.508m) :	0.046m	0.148m
50% (7.090m) :	0.045m	0.151m
40% (5.672m) :	0.042m	0.139m
30% (4.254m) :	0.035m	0.114m
20% (2.836m) :	0.026m	0.080m
10% (1.418m) :	0.013m	0.039m
0% (0.000m) :	0.000m	0.000m

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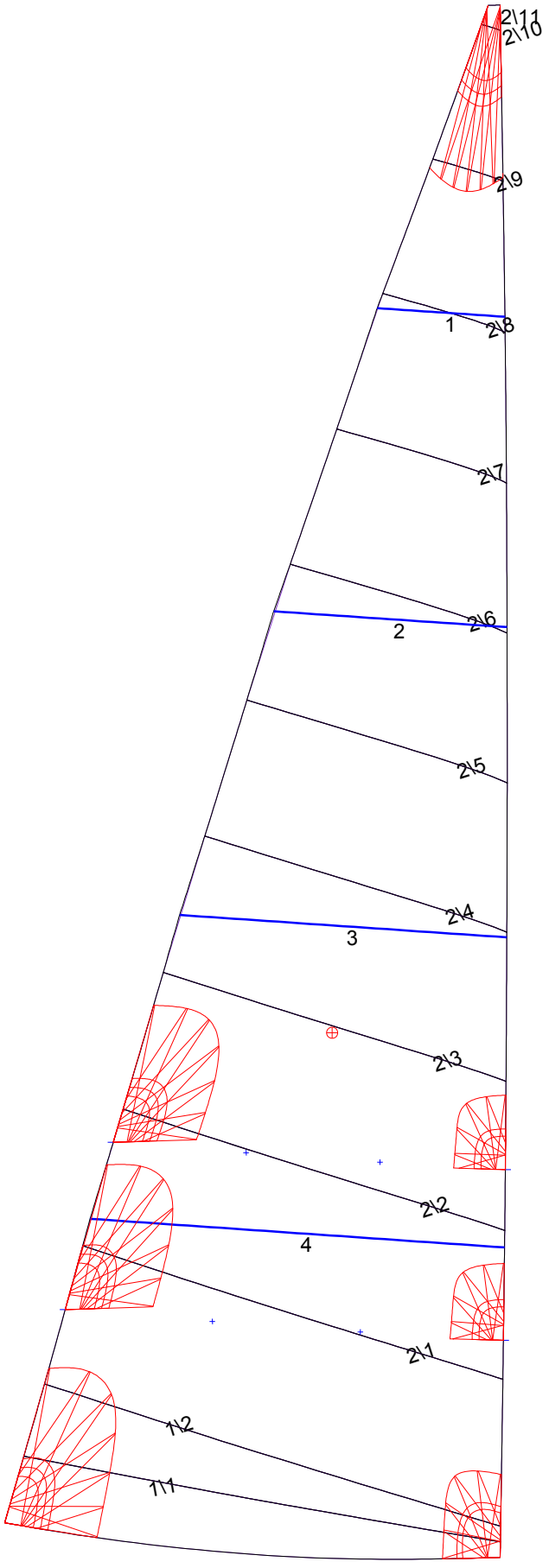

Seam Allowances

	Split	Radial	Cross
Zone: 1	0.038m	0.038m	0.038m
Zone: 2	0.038m	0.038m	0.038m

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	31.81
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m?	Panels
Material 1	36.75	1\1,1\2,2\1,2\2,2\3 2\4,2\5,2\6,2\7,2\8 2\9,2\10,2\11