Mainsail: 6000430-V2.des

Design Info
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Design File:
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Comments:

Initial Design Date: 17/5/2022
Boat:

Client:

Design Data
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Main

Measurements

Luff geodesic:	13.200m
Leech geodesic:	13.800m
Foot geodesic:	5.500m
Head geodesic:	0.133m
Upper width (MUW):	0.949m
Three-quarter width (MTW):	1.788m
Half width (MHW):	3.305m
Quarter width (MQW):	4.437m
Foot median:	13.431m
ORC Mainsail area:	40.723m?
Surface area:	41.768m?
Clew height:	0.339m
Mast rake:	0.468m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
85.714%	1.131m	0.163m	72.756?	11.300m	11.777m	Full
71.429%	2.103m	0.293m	72.756?	9.415m	9.815m	Full
57.143%	2.999m	0.369m	72.756?	7.531m	7.852m	Full
42.857%	3.720m	0.323m	72.756?	5.647m	5.889m	Full
28.571%	4.323m	0.203m	72.756?	3.764m	3.926m	Full
14.286%	4.866m	0.052m	72.756?	1.882m	1.963m	Full

Reefing Points

1, Luff: 2.109m ; Leech: 2.197m ; Offset: 0.000m ; Number Eyelets: 4
2, Luff: 3.955m ; Leech: 4.092m ; Offset: 0.000m ; Number Eyelets: 3
3, Luff: 5.934m ; Leech: 6.129m ; Offset: 0.000m ; Number Eyelets: 3

Luff Curve

13.200m,	0.000m
11.555m,	-0.028m
9.900m,	-0.048m
8.241m,	-0.058m
6.600m,	-0.060m
4.918m,	-0.055m
3.300m,	-0.044m
1.645m,	-0.025m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.273m])		Before BSeam
100% (13.200m) :	0.000m	0.000m
90% (11.881m) :	0.015m	0.051m
80% (10.560m) :	0.029m	0.100m
70% (9.240m) :	0.037m	0.141m
60% (7.920m) :	0.040m	0.165m
50% (6.600m) :	0.039m	0.169m
40% (5.280m) :	0.036m	0.154m
30% (3.960m) :	0.030m	0.124m
20% (2.640m) :	0.021m	0.085m
10% (1.320m) :	0.011m	0.041m
0% (0.000m) :	0.000m	0.000m

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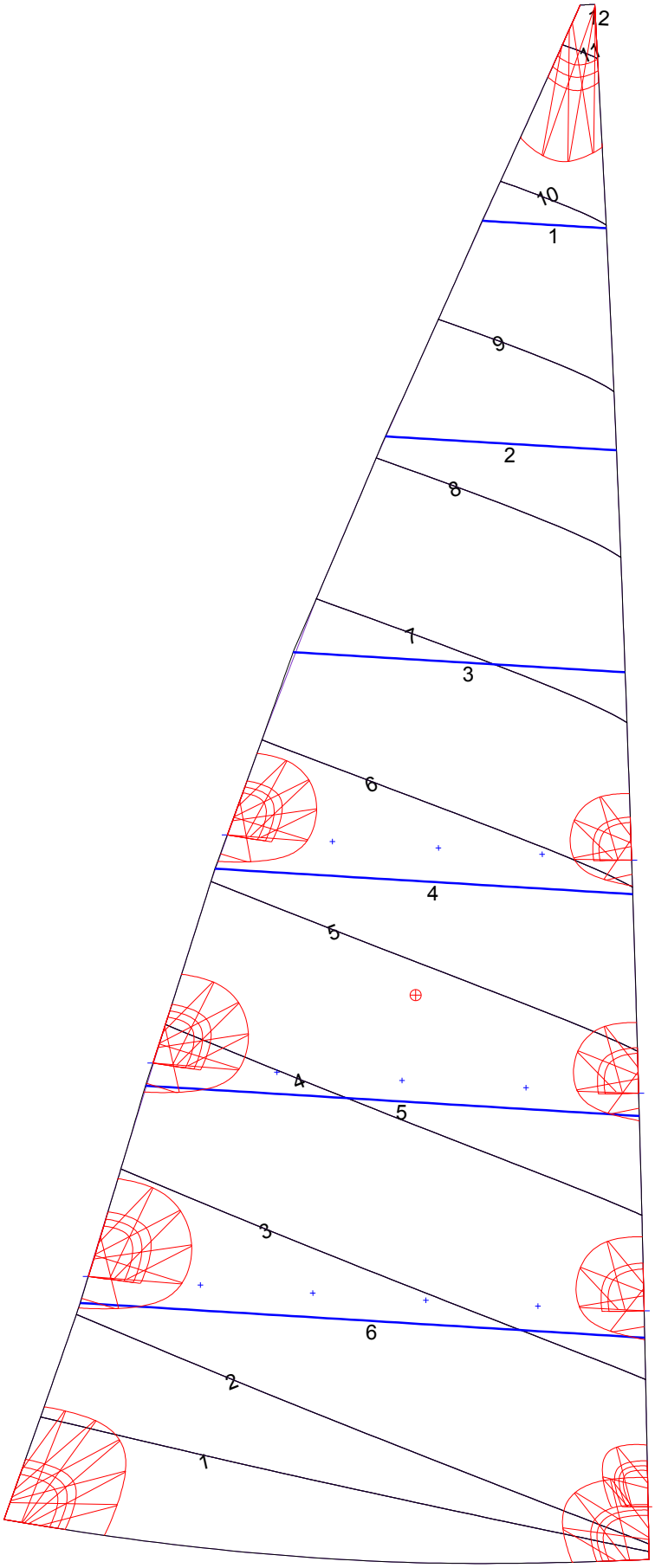

Seam Allowances

	Split	Radial	Cross
Zone: 1	0.000m	0.000m	0.038m

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	35.93
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m?	Panels
Material 1	41.82	1,2,3,4,5 6,7,8,9,10 11,12