Mainsail: 6000505 Tim 135 Catamaran - V1.des

Design Info
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Design File:
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Comments:

Initial Design Date: 11/5/2022
Boat:

Client:

Design Data
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Main

Measurements

Luff geodesic:	12.335m
Leech geodesic:	13.100m
Foot geodesic:	5.049m
Head geodesic:	0.200m
Upper width (MUW):	1.181m
Three-quarter width (MTW):	2.154m
Half width (MHW):	3.631m
Quarter width (MQW):	4.498m
Foot median:	12.601m
ORC Mainsail area:	39.806m?
Surface area:	41.596m?
Clew height:	0.254m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
85.714%	1.551m	0.540m	71.086?	10.557m	11.147m	Full
71.429%	2.641m	0.830m	71.086?	8.796m	9.290m	Full
57.143%	3.446m	0.888m	71.086?	7.035m	7.432m	Full
42.857%	4.018m	0.779m	71.086?	5.275m	5.574m	Full
28.571%	4.446m	0.577m	71.086?	3.516m	3.716m	Full
14.286%	4.769m	0.302m	71.086?	1.758m	1.858m	Full

Reefing Points

1, Luff: 2.095m ; Leech: 2.140m ; Offset: 0.000m ; Number Eyelets: 4
2, Luff: 4.190m ; Leech: 4.285m ; Offset: 0.000m ; Number Eyelets: 4

Luff Curve

12.334m,	0.000m
10.797m,	-0.042m
9.250m,	-0.072m
7.700m,	-0.087m
6.167m,	-0.090m
4.596m,	-0.083m
3.083m,	-0.067m
1.537m,	-0.038m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.251m])		Before BSeam
100% (12.335m) :	0.000m	0.000m
90% (11.102m) :	0.023m	0.070m
80% (9.868m) :	0.042m	0.133m
70% (8.635m) :	0.054m	0.181m
60% (7.401m) :	0.060m	0.205m
50% (6.168m) :	0.060m	0.204m
40% (4.934m) :	0.057m	0.182m
30% (3.700m) :	0.049m	0.146m
20% (2.467m) :	0.036m	0.100m
10% (1.234m) :	0.019m	0.048m
0% (0.000m) :	0.000m	0.000m

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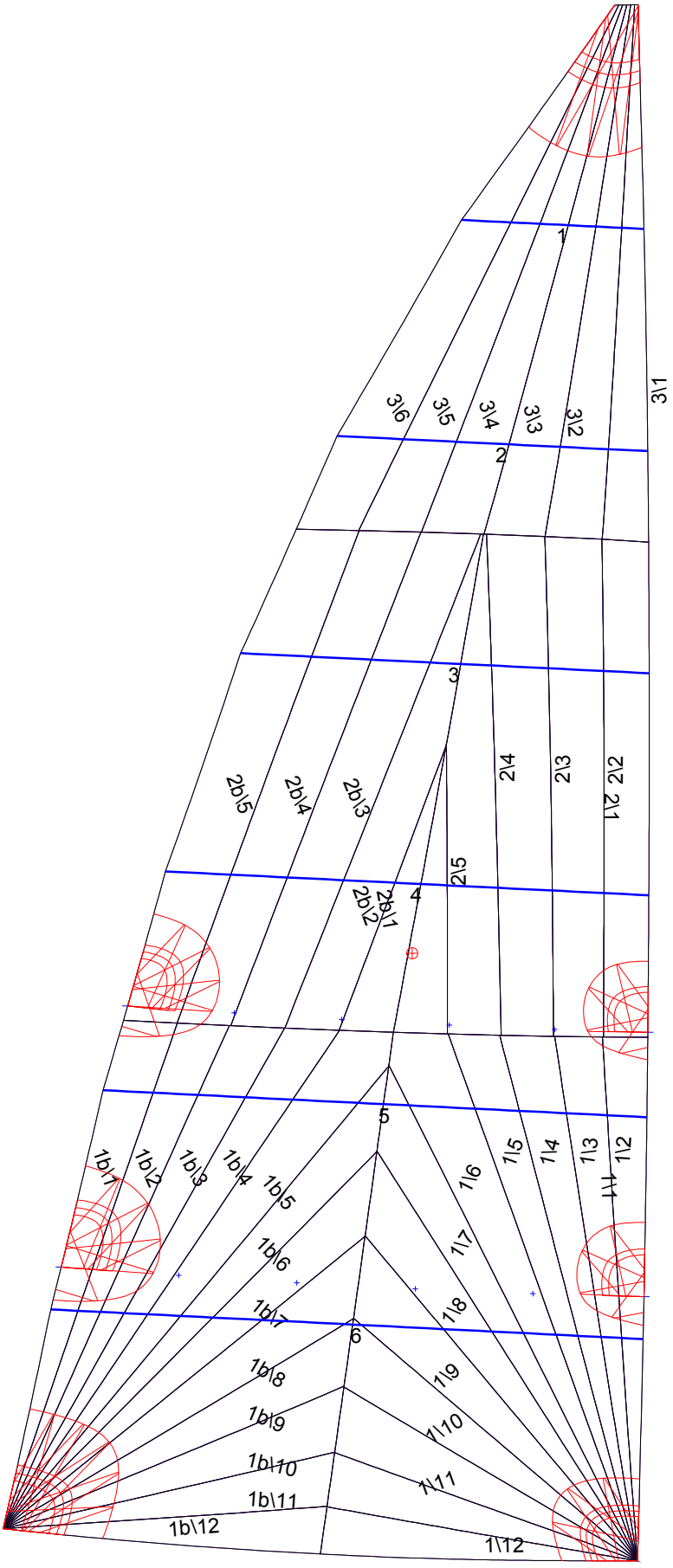

Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.038m	0.015m	0.038m
Zone: 1/b	0.038m	0.015m	0.038m
Zone: 2/a	0.038m	0.015m	0.038m
Zone: 2/b	0.038m	0.015m	0.038m
Zone: 3	0.038m	0.015m	0.038m

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	7.30
Radial/Vertical	134.03
Bi-Radial Split	8.51

Materials

Material	Area (m?	Panels
Material 1	41.66	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,1b\8 1b\9,1b\10,1b\11,1b\12,2\1 2\2,2\3,2\4,2\5,2b\1 2b\2,2b\3,2b\4,2b\5,3\1 3\2,3\3,3\4,3\5,3\6