

Mainsail: 6000122 mainsail.des

Design Info
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Design File:
D:\Dropbox\Dropbox\Fareast Sails\2022 Order\6000122\6000122 mainsail.des

Initial Design Date: 30/1/2022
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	13.900m
Leech geodesic:	14.560m
Foot geodesic:	5.700m
Head geodesic:	1.550m
Upper width (MUW):	1.848m
Three-quarter width (MTW):	2.523m
Half width (MHW):	3.682m
Quarter width (MQW):	4.726m
Foot median:	14.073m
ORC Mainsail area:	50.213m ²
Surface area:	51.705m ²
Clew height:	0.542m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
100.178%	1.772m	0.000m	101.858?	13.057m	14.533m	Full
92.344%	1.919m	0.008m	78.738?	12.661m	13.396m	Full
82.609%	2.371m	0.014m	78.866?	11.312m	11.984m	Full
68.430%	3.049m	0.059m	78.502?	9.374m	9.927m	Full
52.106%	3.705m	0.018m	77.592?	7.185m	7.559m	Full
35.131%	4.389m	0.011m	78.023?	4.830m	5.096m	Full
19.859%	4.974m	0.010m	77.959?	2.741m	2.881m	Full

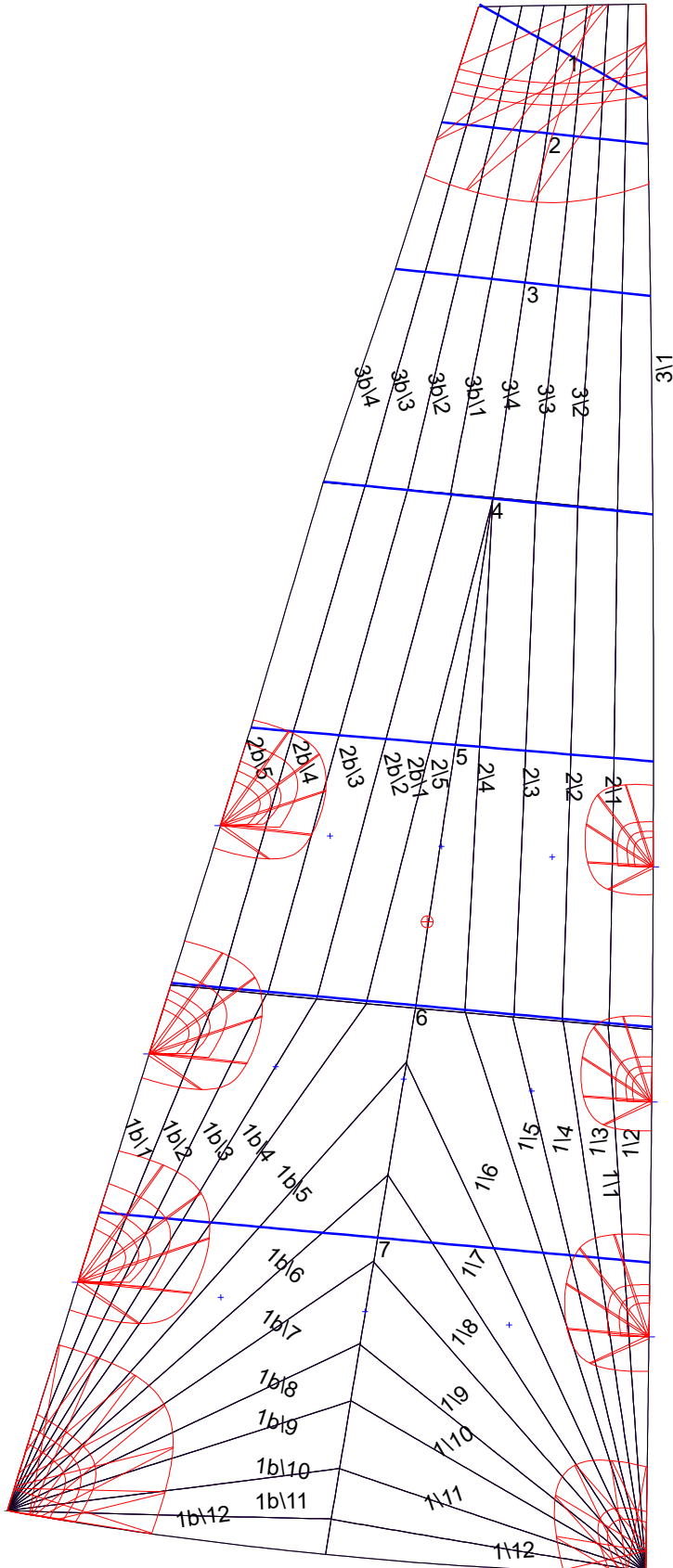
Reefing Points

1, Luff: 2.082m ; Leech: 2.124m ; Offset: 0.000m ; Number Eyelets: 3
 2, Luff: 4.165m ; Leech: 4.247m ; Offset: 0.000m ; Number Eyelets: 3
 3, Luff: 6.249m ; Leech: 6.368m ; Offset: 0.000m ; Number Eyelets: 3

Luff Curve

		Fanned Luff (@ 5.00% [0.283m])	Before BSeam
13.900m,	0.000m	100% (13.900m) :	0.000m
10.425m,	-0.054m	90% (12.511m) :	0.018m
6.950m,	-0.067m	80% (11.120m) :	0.036m
3.475m,	-0.046m	70% (9.730m) :	0.104m
0.000m,	0.000m	60% (8.340m) :	0.120m
		50% (6.950m) :	0.124m
		40% (5.560m) :	0.048m
		30% (4.170m) :	0.039m
		20% (2.780m) :	0.026m
		10% (1.390m) :	0.012m
		0% (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/a	0.038m	0.015m	0.038m
Zone: 3/b	0.038m	0.015m	0.038m

Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

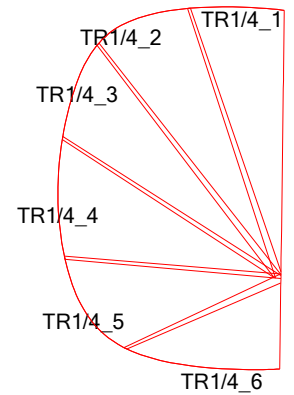
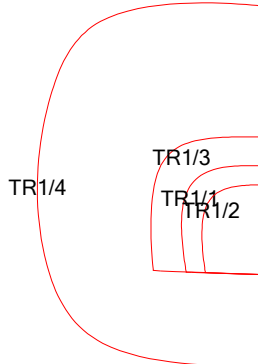
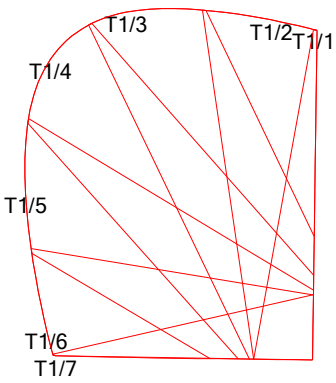
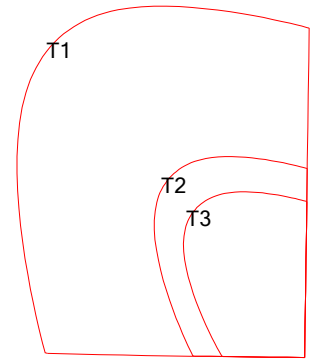
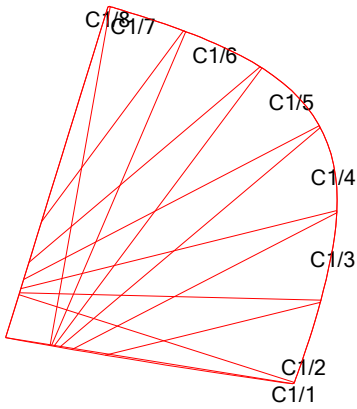
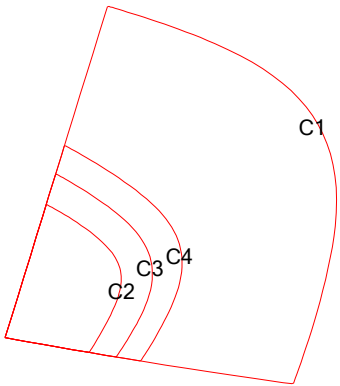
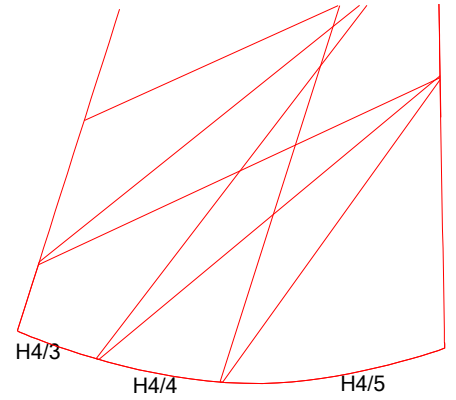
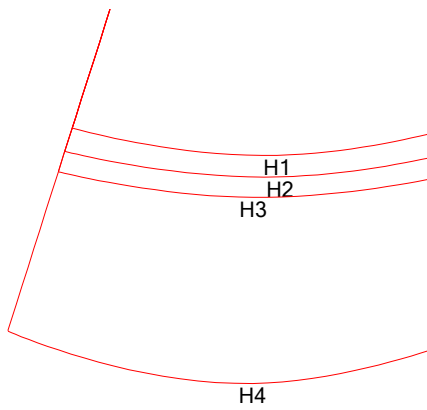
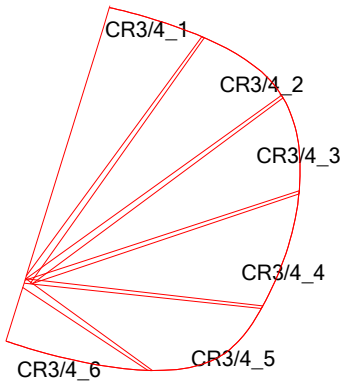
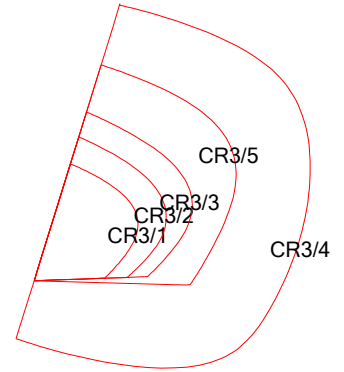
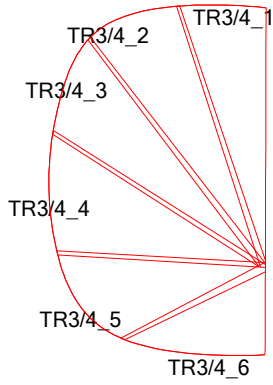
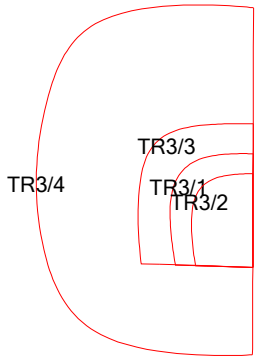
Total Seam Lengths (m)

Horizontal	7.45
Radial/Vertical	156.39
Bi-Radial Split	14.30

Materials

Material	Area (m²)	Panels
Material 1	51.78	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, 3b\1, 3b\2 3b\3, 3b\4

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