

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):	1.923m
Three-quarter width (MTW):	2.629m
Half width (MHW):	3.826m
Quarter width (MQW):	4.826m
Foot median:	14.073m
ORC Mainsail area:	51.471m ²
Surface area:	53.179m ²
Clew height:	0.547m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
100.000%	1.771m	0.000m	100.942°	13.061m	14.502m	Full
94.613%	1.918m	0.107m	78.738°	12.974m	13.721m	Full
87.876%	2.078m	0.136m	78.866°	12.040m	12.744m	Full
75.305%	2.842m	0.150m	78.502°	10.322m	10.921m	Full
57.291%	3.652m	0.177m	77.592°	7.897m	8.308m	Full
38.961%	4.385m	0.151m	78.023°	5.358m	5.650m	Full
21.838%	4.995m	0.102m	77.959°	3.016m	3.167m	Full

Reefing Points

1, Luff: 2.150m ; Leech: 2.111m ; Offset: 0.000m ; Number Eyelets: 4
2, Luff: 4.100m ; Leech: 4.223m ; Offset: 0.000m ; Number Eyelets: 0
3, Luff: 6.045m ; Leech: 6.040m ; Offset: 0.000m ; Number Eyelets: 0

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) :	0.042m
6.950m,	-0.067m	80% (11.120m) :	0.080m
3.475m,	-0.046m	70% (9.730m) :	0.108m
0.000m,	0.000m	60% (8.340m) :	0.124m
		50% (6.950m) :	0.129m
		40% (5.560m) :	0.121m
		30% (4.170m) :	0.101m
		20% (2.780m) :	0.071m
		10% (1.390m) :	0.034m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	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

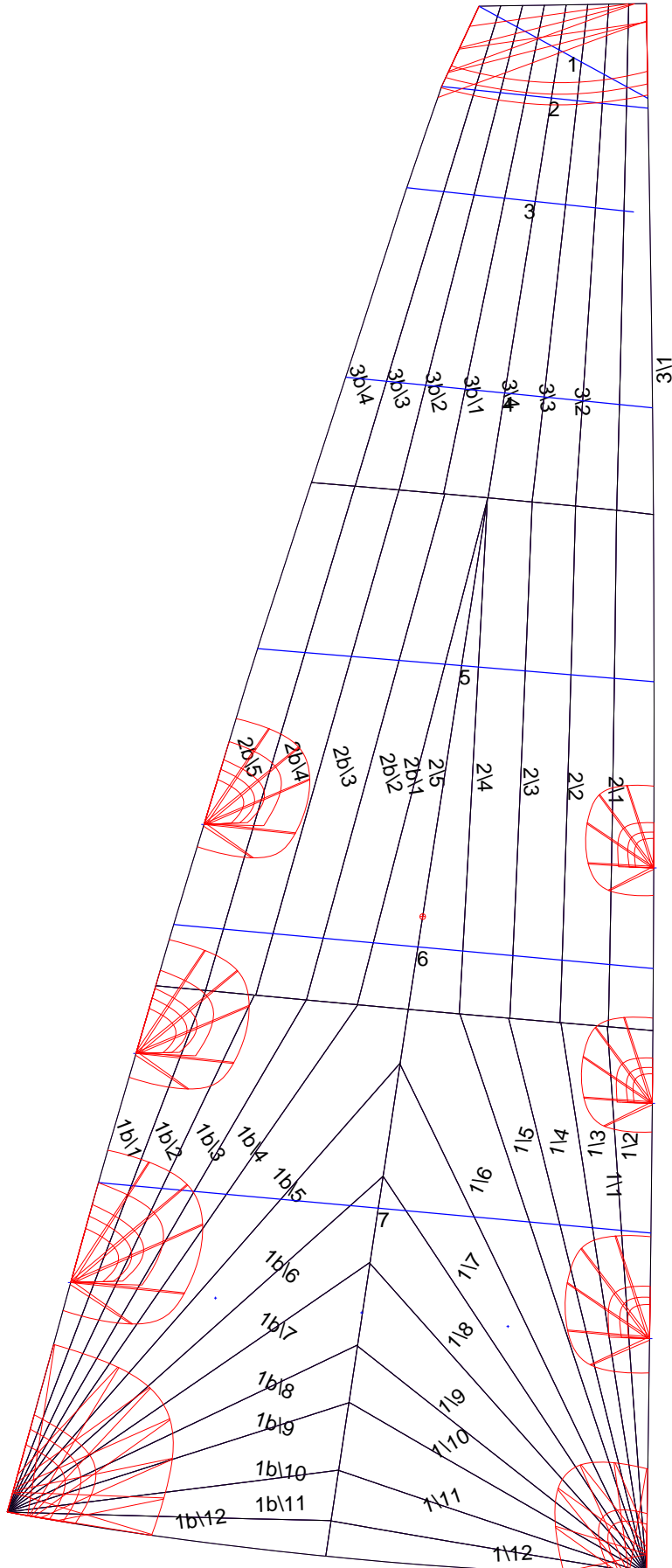
Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

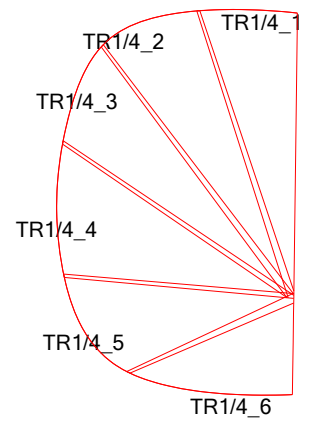
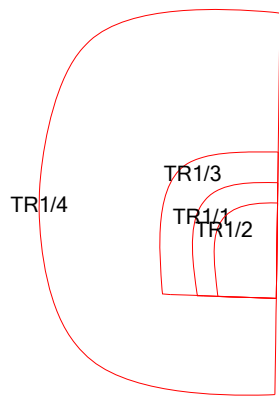
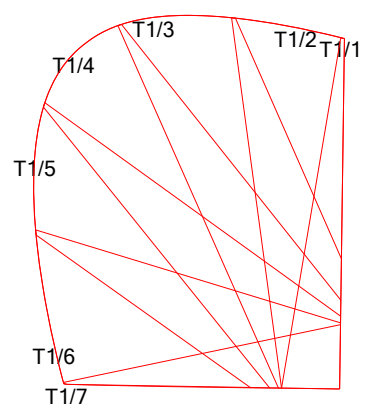
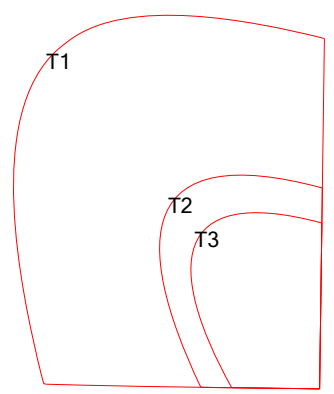
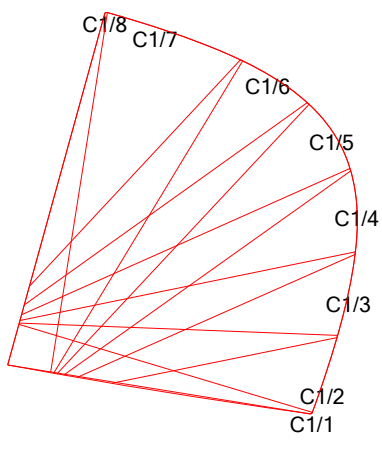
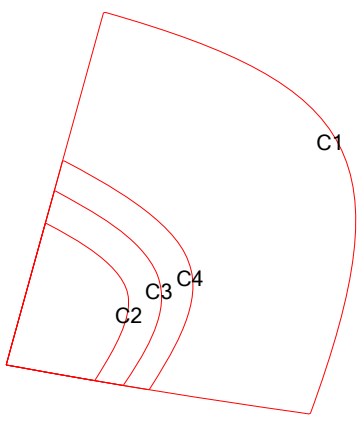
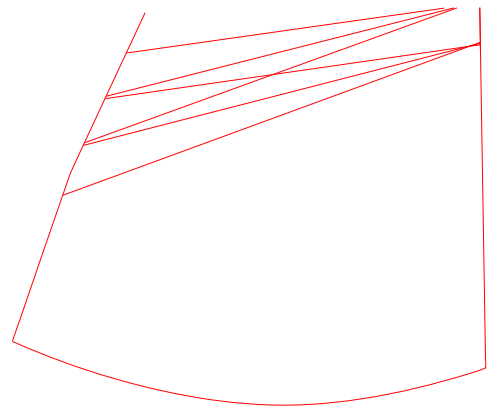
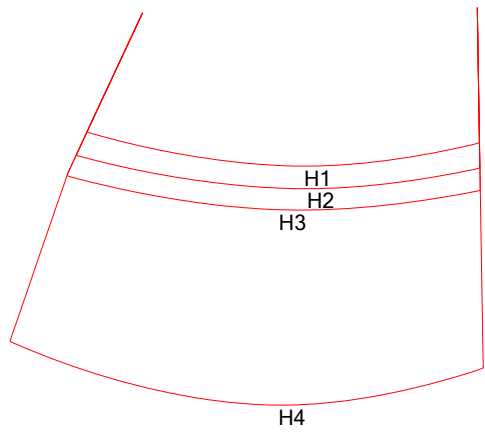
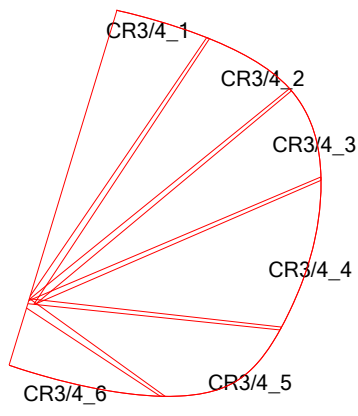
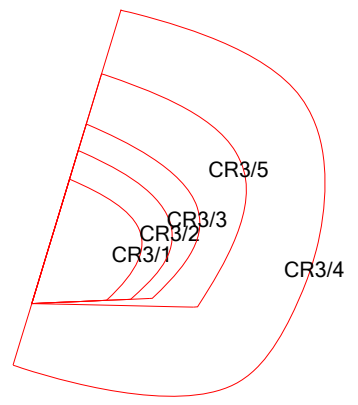
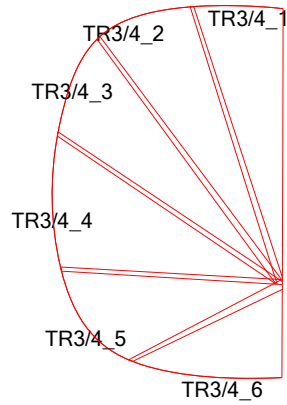
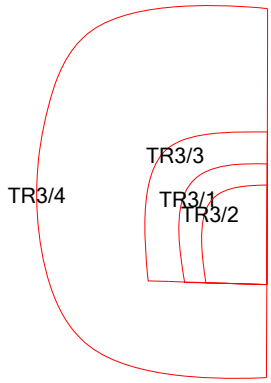
Horizontal	7.69
Radial/Vertical	156.29
Bi-Radial Split	14.30

Materials

Material	Area (m ²)	Panels
Material 1	53.26	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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