

Mainsail: 5000720 Shawn mainsail.des

Design Info
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Design File:
D:\dropbox\Dropbox\Fareast Sails\2021\5000720 Shawn\5000720 Shawn mainsail.des

Initial Design Date: 9/8/2021
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	15.691m
Leech geodesic:	16.799m
Foot geodesic:	6.840m
Head geodesic:	0.200m
Upper width (MUW):	1.240m
Three-quarter width (MTW):	2.322m
Half width (MHW):	4.232m
Quarter width (MQW):	5.677m
Foot median:	16.111m
ORC Mainsail area:	61.739m ²
Surface area:	63.709m ²
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
85.714%	1.494m	0.249m	69.251°	13.437m	14.357m	Full
71.429%	2.764m	0.485m	69.251°	11.196m	11.964m	Full
57.143%	3.881m	0.595m	69.251°	8.956m	9.571m	Full
42.857%	4.772m	0.522m	69.251°	6.716m	7.178m	Full
28.571%	5.545m	0.385m	69.251°	4.477m	4.786m	Full
14.286%	6.214m	0.203m	69.251°	2.238m	2.393m	Full

Reefing Points

- 1, Luff: 2.352m ; Leech: 2.454m ; Offset: 0.000m ; Number Eyelets: 2
- 2, Luff: 4.705m ; Leech: 4.912m ; Offset: 0.000m ; Number Eyelets: 2
- 3, Luff: 7.058m ; Leech: 7.383m ; Offset: 0.000m ; Number Eyelets: 2

Luff Curve

		Fanned Luff (@ 5.00% [0.340m])	Before BSeam
15.691m,	0.000m	100% (15.691m) :	0.000m
14.106m,	-0.032m	90% (14.122m) :	0.025m
12.552m,	-0.057m	80% (12.553m) :	0.044m
10.968m,	-0.072m	70% (10.984m) :	0.055m
9.413m,	-0.080m	60% (9.415m) :	0.060m
7.091m,	-0.077m	50% (7.846m) :	0.058m
4.707m,	-0.059m	40% (6.276m) :	0.051m
2.492m,	-0.035m	30% (4.707m) :	0.040m
0.000m,	0.000m	20% (3.138m) :	0.026m
		10% (1.569m) :	0.012m
		0% (0.000m) :	0.000m

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Seam Allowances			
	Split	Radial	Cross
Zone: 1	0.000m	0.000m	0.038m
Zone: 2	0.000m	0.000m	0.038m

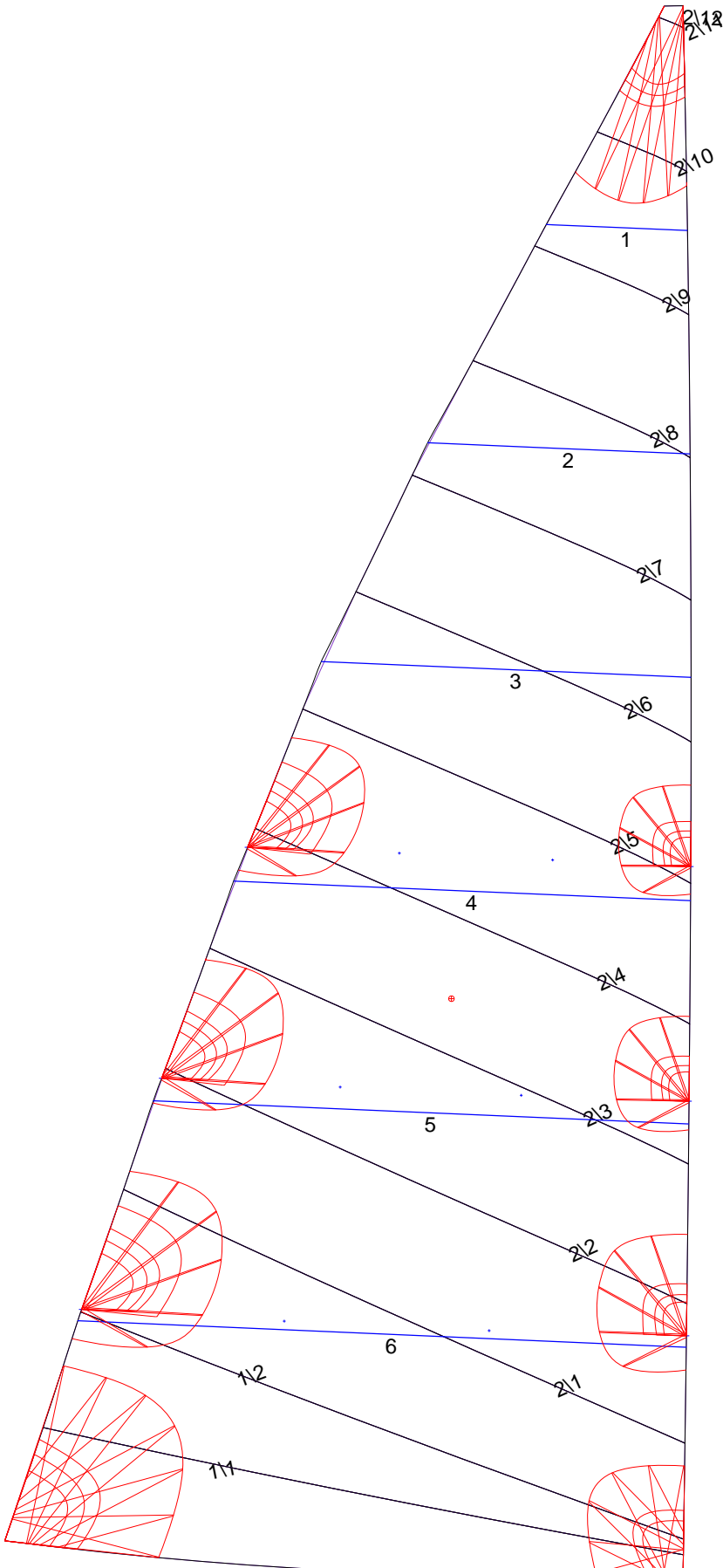
Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

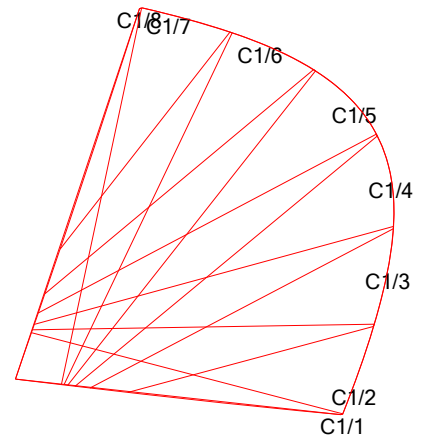
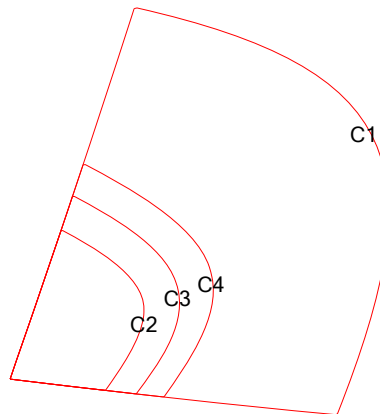
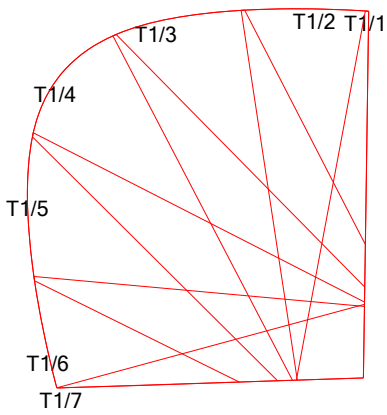
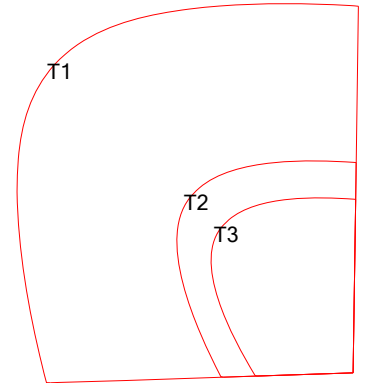
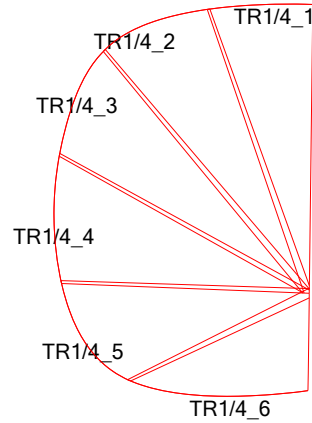
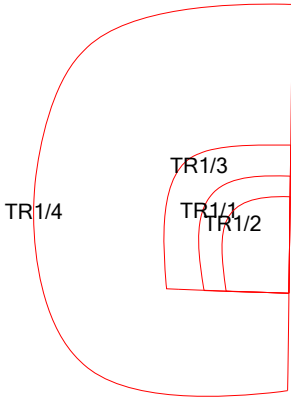
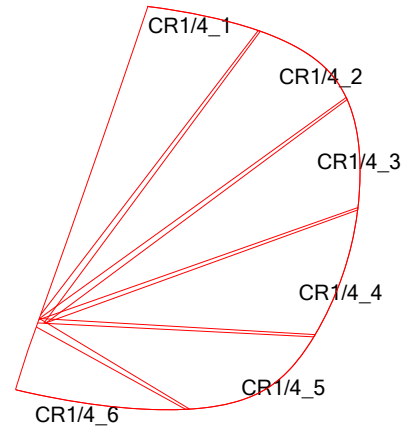
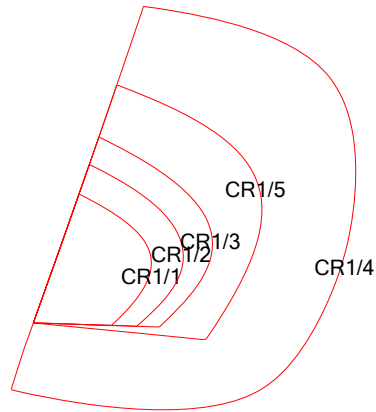
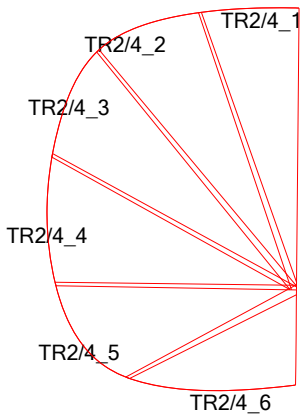
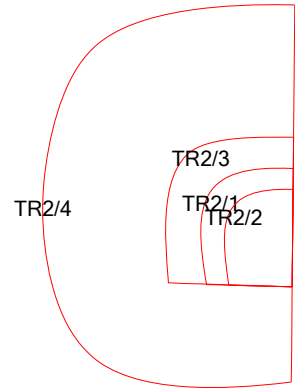
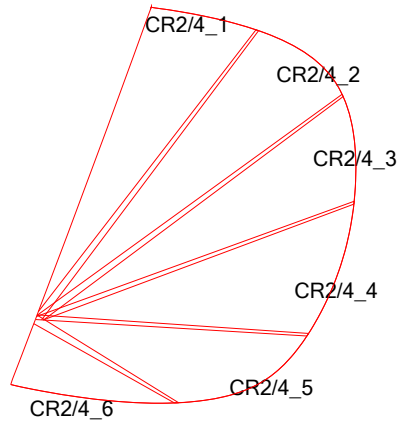
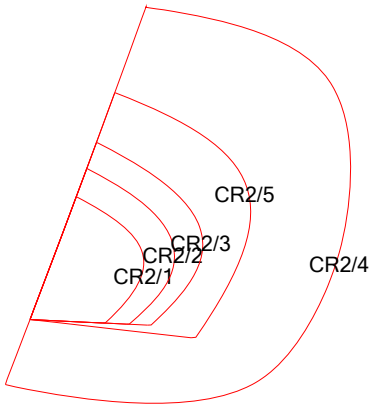
Horizontal	52.63
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	63.77	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\11,2\12



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