

# Mainsail: 5000116 Mark.des

## Design Info

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## Design File:

D:\dropbox\Dropbox\Fareast Sails\2021\5000116 Mark\5000116 Mark.des

Initial Design Date: 5/2/2021

Boat:

Comments:

Client:

## Design Data

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### Main

#### Measurements

Luff geodesic:	9.650m
Leech geodesic:	10.111m
Foot geodesic:	3.310m
Head geodesic:	0.115m
Upper width (MUW):	0.644m
Three-quarter width (MTW):	1.175m
Half width (MHW):	2.071m
Quarter width (MQW):	2.753m
Foot median:	9.851m
ORC Mainsail area:	18.600m <sup>2</sup>
Surface area:	19.056m <sup>2</sup>
Clew height:	0.100m
Mast rake:	0.000m

#### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.693m	0.193m	73.080?	7.715m	8.062m	
60.000%	0.990m	0.270m	73.080?	5.786m	6.047m	
40.000%	0.990m	0.233m	73.080?	3.857m	4.031m	
20.000%	0.850m	0.136m	73.080?	1.928m	2.016m	

#### Reefing Points

1, Luff: 1.447m ; Leech: 1.494m ; Offset: 0.000m ; Number Eyelets: 2  
2, Luff: 2.894m ; Leech: 2.989m ; Offset: 0.000m ; Number Eyelets: 2

#### Luff Curve

		Fanned Luff (@ 5.00% [0.165m])	Before BSeam
9.650m,	0.000m	100% (9.650m) :	0.000m
8.447m,	-0.020m	90% (8.685m) :	0.035m
7.237m,	-0.035m	80% (7.720m) :	0.068m
6.024m,	-0.042m	70% (6.755m) :	0.094m
4.825m,	-0.044m	60% (5.790m) :	0.109m
3.596m,	-0.041m	50% (4.825m) :	0.111m
2.412m,	-0.032m	40% (3.860m) :	0.101m
1.202m,	-0.018m	30% (2.895m) :	0.082m
0.000m,	0.000m	20% (1.930m) :	0.056m
		10% (0.965m) :	0.027m
		0% (0.000m) :	0.000m

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Seam Allowances			
	Split	Radial	Cross
Zone: 1	0.000m	0.000m	0.025m
Zone: 2	0.000m	0.000m	0.025m

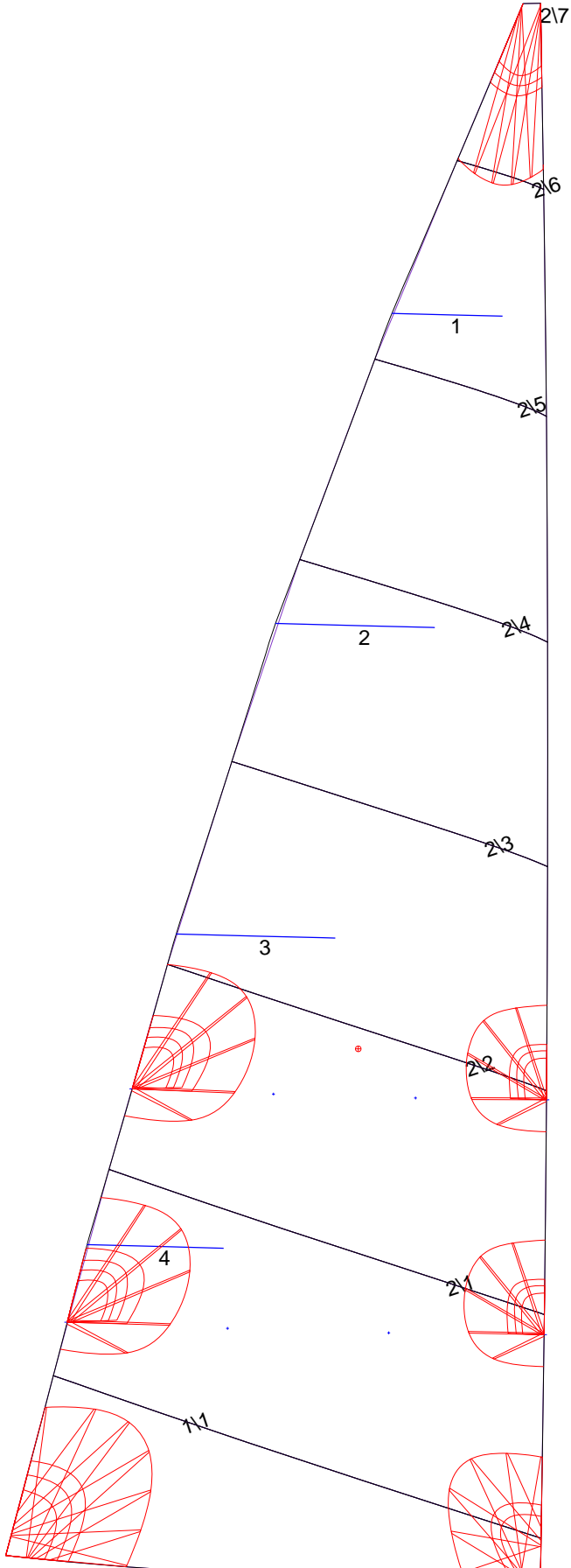
Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

### Total Seam Lengths (m)

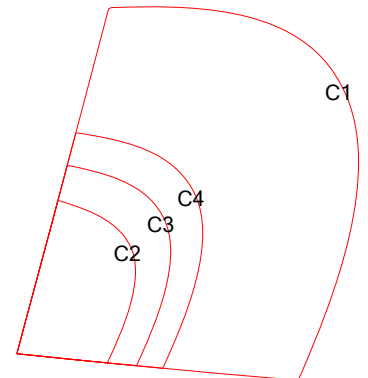
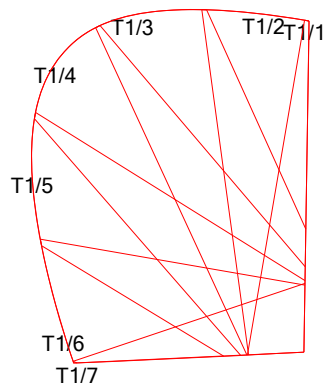
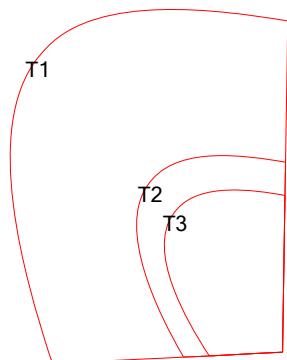
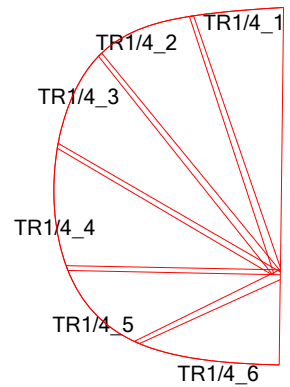
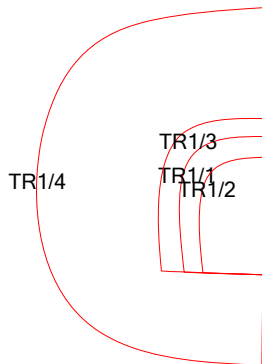
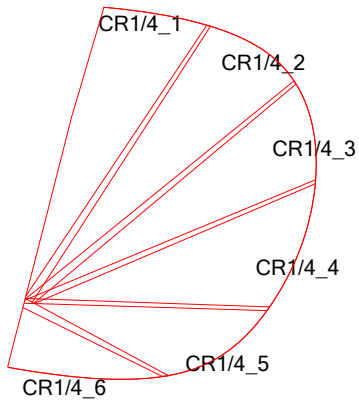
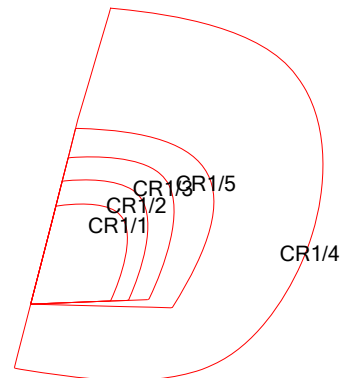
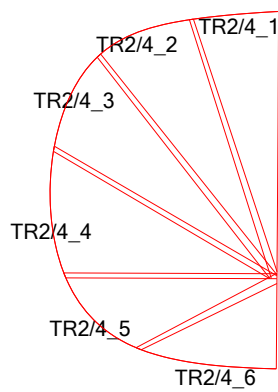
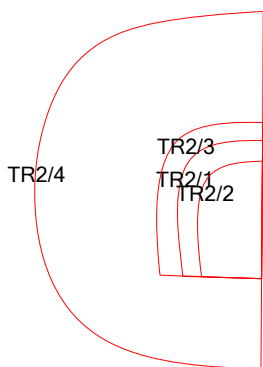
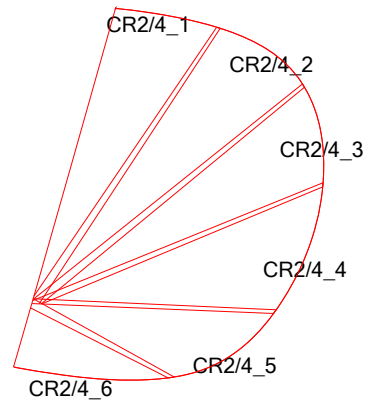
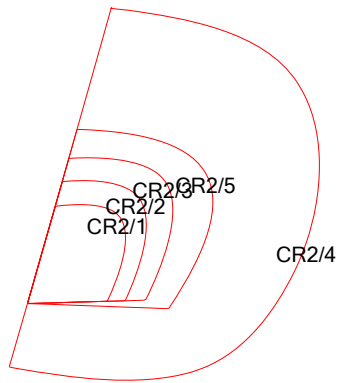
Horizontal	14.28
Radial/Vertical	0.00
Bi-Radial Split	0.00

### Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	19.05	1\1,2\1,2\2,2\3,2\4 2\5,2\6,2\7



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