

# Mainsail: 7000102 Christian main.des

Design Info  
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Design File:  
F:\Dropbox\Dropbox-20221019\Dropbox20221213\Dropbox\Fareast Sails\2023 Order\Need Confrim Order\7000102 C

Initial Design Date: 11/1/2023  
Boat:

Comments:

Client:

Design Data  
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## Main

### Measurements

Luff geodesic: 16.300m  
Leech geodesic: 17.330m  
Foot geodesic: 5.585m  
Head geodesic: 0.200m  
Upper width (MUW): 2.252m  
Three-quarter width (MTW): 3.126m  
Half width (MHW): 4.015m  
Quarter width (MQW): 4.784m  
Foot median: 16.756m  
ORC Mainsail area: 61.580m?  
Surface area: 65.111m?  
Clew height: 0.000m  
Mast rake: 0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
92.646%	2.208m	1.507m	93.391?	14.854m	15.957m	Full
85.482%	2.894m	1.748m	75.000?	13.873m	14.723m	Full
73.548%	3.319m	1.448m	72.974?	11.951m	12.668m	Full
57.204%	3.857m	1.083m	71.835?	9.319m	9.853m	Full
38.729%	4.415m	0.686m	71.835?	6.308m	6.671m	Full
19.187%	4.975m	0.296m	71.835?	3.122m	3.305m	Full

### Reefing Points

1, Luff: 2.445m ; Leech: 2.525m ; Offset: 0.000m ; Number Eyelets: 0  
2, Luff: 4.890m ; Leech: 5.035m ; Offset: 0.000m ; Number Eyelets: 0  
3, Luff: 7.335m ; Leech: 7.534m ; Offset: 0.000m ; Number Eyelets: 0

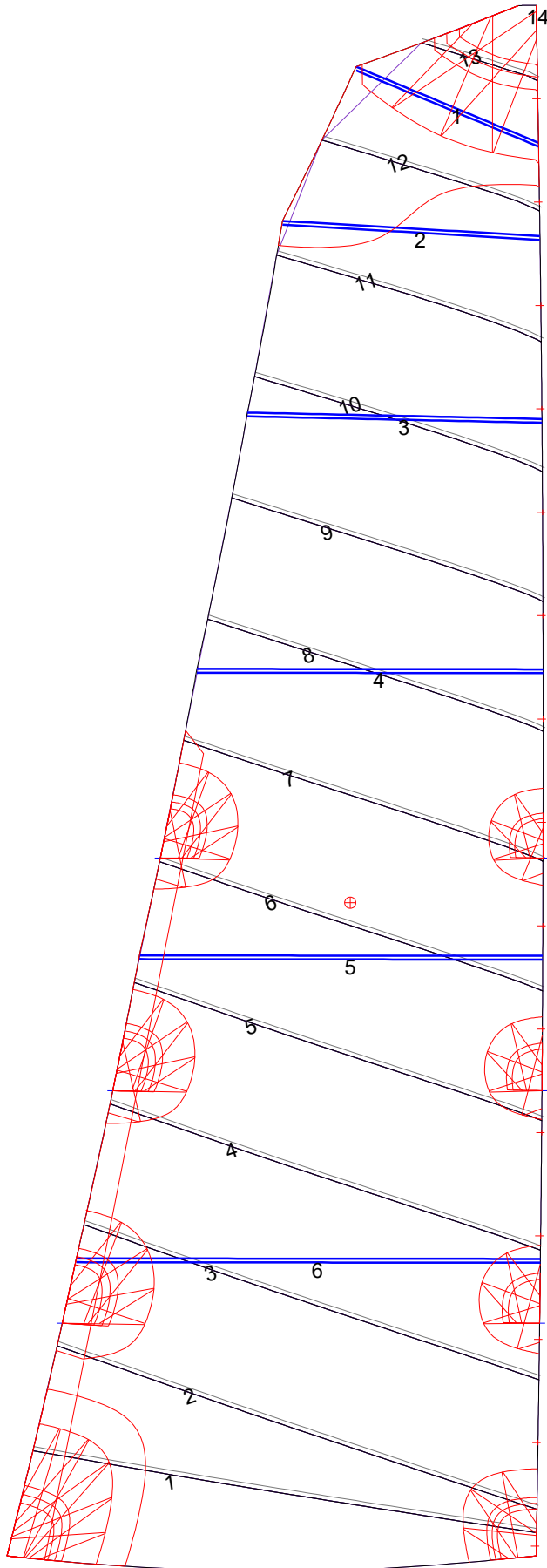
### Luff Slides

1, Position: 0.000m  
2, Position: 1.087m  
3, Position: 2.173m  
4, Position: 3.260m  
5, Position: 4.347m  
6, Position: 5.433m  
7, Position: 6.520m  
8, Position: 7.607m  
9, Position: 8.693m  
10, Position: 9.780m  
11, Position: 10.867m  
12, Position: 11.953m  
13, Position: 13.040m  
14, Position: 14.127m  
15, Position: 15.213m  
16, Position: 16.300m

### Luff Curve

		Fanned Luff (@ 5.00% [0.278m])	Before BSeam
16.299m,	0.000m	100% (16.300m) :	0.000m
14.268m,	-0.034m	90% (14.670m) :	0.018m
12.225m,	-0.058m	80% (13.040m) :	0.033m
10.176m,	-0.071m	70% (11.410m) :	0.043m
8.150m,	-0.073m	60% (9.780m) :	0.047m
6.073m,	-0.068m	50% (8.150m) :	0.048m
4.075m,	-0.054m	40% (6.520m) :	0.044m
2.031m,	-0.031m	30% (4.890m) :	0.038m
0.000m,	0.000m	20% (3.260m) :	0.028m
		10% (1.630m) :	0.014m
		0% (0.000m) :	0.000m

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## Seam Allowances

Zone: 1	Split	Radial	Cross
	0.000m	0.000m	0.045m

## Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

## Total Seam Lengths (m)

Horizontal	52.06
Radial/Vertical	0.00
Bi-Radial Split	0.00

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	64.87	1,2,3,4,5 6,7,8,9,10 11,12,13,14