

# Mainsail: 8000702 Jesus-1 Cheoy Lee Golden Wave 42 MainsailV1.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000702 Jesus CH

Initial Design Date: 6/8/2024  
Boat:  
Cheoy Lee Golden Wave 42  
Client:

Comments:

Design Data  
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Main

Measurements

Luff geodesic: 15.513m  
Leech geodesic: 16.119m  
Foot geodesic: 4.653m  
Head geodesic: 0.135m  
Upper width (MUW): 0.892m  
Three-quarter width (MTW): 1.632m  
Half width (MHW): 2.911m  
Quarter width (MQW): 3.908m  
Foot median: 15.696m  
ORC Mainsail area: 42.073m?  
Surface area: 42.665m?  
Clew height: 0.100m  
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.391m	0.353m	73.325?	12.433m	12.859m	Full
60.000%	1.300m	0.459m	73.325?	9.353m	9.645m	
40.000%	1.300m	0.404m	73.325?	6.274m	6.430m	
20.000%	1.300m	0.233m	73.325?	3.194m	3.215m	

Reefing Points

1, Luff: 1.892m ; Leech: 1.938m ; Offset: 0.000m ; Number Eyelets: 3  
2, Luff: 3.955m ; Leech: 4.049m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 5.118m ; Leech: 5.148m ;  
2, Luff: 10.237m ; Leech: 10.469m ;

Luff Slides

1, Position: 1.117m  
2, Position: 2.304m  
3, Position: 3.297m  
4, Position: 4.322m  
5, Position: 5.307m  
6, Position: 6.305m  
7, Position: 7.300m  
8, Position: 8.327m  
9, Position: 9.353m  
10, Position: 10.380m  
11, Position: 11.407m  
12, Position: 13.460m  
13, Position: 14.486m

Foot Slides

1, Position: 0.550m  
2, Position: 1.142m  
3, Position: 1.734m  
4, Position: 2.326m  
5, Position: 2.919m  
6, Position: 3.511m  
7, Position: 4.103m

Luff Curve

15.512m, 0.000m  
13.579m, -0.036m  
11.634m, -0.062m  
9.685m, -0.073m  
7.756m, -0.074m  
5.780m, -0.069m  
3.878m, -0.055m  
1.933m, -0.031m  
0.000m, 0.000m

Fanned Luff (@ 5.00% [0.232m])

100% (15.513m) : 0.000m -0.000m  
90% (13.962m) : -0.022m 0.053m  
80% (12.410m) : 0.040m 0.100m  
70% (10.859m) : 0.051m 0.133m  
60% (9.308m) : 0.054m 0.152m  
50% (7.757m) : 0.054m 0.158m  
40% (6.205m) : 0.050m 0.154m  
30% (4.654m) : 0.042m 0.135m  
20% (3.102m) : 0.031m 0.101m  
10% (1.551m) : 0.015m 0.053m  
0% (0.000m) : 0.000m 0.000m

Before BSeam

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

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

Total Seam Lengths (m)

Horizontal	36.38
Radial/Vertical	0.00
Bi-Radial Split	0.00

### Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	42.67	1,2,3,4,5 6,7,8,9,10 11,12,13,14

