

Mainsail: 8000702 Jesus-1 Cheoy Lee Golden Wave 42 Mainsail.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: 25/7/2024
Boat:
Cheoy Lee Golden Wave 42
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 15.590m
Leech geodesic: 16.192m
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: 15.772m
ORC Mainsail area: 42.284m?
Surface area: 42.873m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.391m	0.353m	73.325?	12.496m	12.918m	Full
60.000%	1.300m	0.459m	73.325?	9.402m	9.689m	
40.000%	1.300m	0.404m	73.325?	6.308m	6.459m	
20.000%	1.300m	0.233m	73.325?	3.214m	3.230m	

Reefing Points

1, Luff: 1.901m ; Leech: 1.947m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 3.974m ; Leech: 4.068m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 5.143m ; Leech: 5.173m ;
2, Luff: 10.287m ; Leech: 10.518m ;

Luff Slides

1, Position: 1.114m
2, Position: 2.285m
3, Position: 3.242m
4, Position: 4.446m
5, Position: 5.358m
6, Position: 6.309m
7, Position: 7.340m
8, Position: 8.371m
9, Position: 9.403m
10, Position: 10.434m
11, Position: 11.465m
12, Position: 13.528m
13, Position: 14.559m

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

15.589m, 0.000m
13.647m, -0.036m
11.692m, -0.062m
9.733m, -0.073m
7.795m, -0.074m
5.809m, -0.069m
3.897m, -0.055m
1.943m, -0.031m
0.000m, 0.000m

Fanned Luff (@ 5.00% [0.232m])

100% (15.590m) : 0.000m
90% (14.031m) : -0.022m
80% (12.472m) : 0.041m
70% (10.913m) : 0.051m
60% (9.354m) : 0.055m
50% (7.795m) : -0.054m
40% (6.236m) : 0.051m
30% (4.677m) : 0.043m
20% (3.118m) : 0.031m
10% (1.559m) : 0.015m
0% (0.000m) : 0.000m

Before BSeam

-0.000m
0.053m
0.100m
0.133m
0.152m
0.158m
0.154m
0.135m
0.101m
0.053m
0.000m

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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	36.54
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	42.88	1,2,3,4,5 6,7,8,9,10 11,12,13,14

