

Mainsail: 7000525 Jay Revolution 38 Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000525 Jay\7000525

Initial Design Date: 24/5/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 11.520m
Leech geodesic: 12.294m
Foot geodesic: 4.560m
Head geodesic: 0.115m
Upper width (MUW): 1.007m
Three-quarter width (MTW): 1.867m
Half width (MHW): 3.162m
Quarter width (MQW): 4.001m
Foot median: 11.860m
ORC Mainsail area: 32.760m?
Surface area: 33.828m?
Clew height: -0.060m
Mast rake: 0.406m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.510m	0.287m	70.709?	9.422m	10.027m	Full
62.425%	2.678m	0.408m	70.709?	7.158m	7.633m	Full
42.306%	3.511m	0.366m	70.709?	4.832m	5.173m	Full
21.705%	4.096m	0.223m	70.709?	2.450m	2.654m	Full

Reefing Points

1, Luff: 2.820m ; Leech: 2.940m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 5.234m ; Leech: 5.477m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.798m ; Leech: 4.018m ;
2, Luff: 7.589m ; Leech: 8.013m ;

Luff Slides

1, Position: 1.001m
2, Position: 1.873m
3, Position: 3.244m
4, Position: 4.038m
5, Position: 5.607m
6, Position: 6.383m
7, Position: 7.913m
8, Position: 8.667m
9, Position: 10.121m
10, Position: 10.821m

Foot Slides

1, Position: 0.659m
2, Position: 1.550m
3, Position: 2.330m
4, Position: 3.110m
5, Position: 3.920m

Luff Curve

11.505m, 0.000m
9.204m, -0.263m
6.903m, -0.350m
3.451m, -0.263m
0.000m, 0.000m

Fanned Luff (@ 5.00% [0.227m])

100% (11.520m) : 0.000m
90% (10.374m) : 0.098m
80% (9.219m) : 0.183m
70% (8.069m) : 0.228m
60% (6.915m) : 0.241m
50% (5.762m) : 0.237m
40% (4.608m) : 0.217m
30% (3.456m) : 0.179m
20% (2.303m) : 0.125m
10% (1.152m) : 0.061m
0% (0.000m) : 0.000m

Before BSeam

0.000m
0.164m
0.312m
0.404m
0.440m
0.436m
0.395m
0.320m
0.219m
0.105m
0.000m

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Seam Allowances			
Zone:	Split	Radial	Cross
1	0.036m	0.036m	0.036m

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

Total Seam Lengths (m)

Horizontal	28.04
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	33.81	1,2,3,4,5 6,7,8,9,10

