

Mainsail: 7000525 Jay Revolution 38 MainsailV1.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):	1.002m
Three-quarter width (MTW):	1.863m
Half width (MHW):	3.164m
Quarter width (MQW):	4.005m
Foot median:	11.861m
ORC Mainsail area:	32.761m ²
Surface area:	33.829m ²
Clew height:	-0.060m
Mast rake:	0.406m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
81.295%	1.550m	0.287m	69.952?	9.356m	9.940m	Full
61.652%	2.716m	0.408m	69.952?	7.097m	7.539m	Full
41.473%	3.547m	0.366m	69.952?	4.776m	5.071m	Full
21.268%	4.116m	0.223m	69.840?	2.457m	2.601m	Full

Reefing Points

- 1, Luff: 2.820m ; Leech: 2.939m ; 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: 4.016m ;
- 2, Luff: 7.589m ; Leech: 8.014m ;

Luff Slides

- 1, Position: 1.582m
- 2, Position: 3.615m
- 3, Position: 5.936m
- 4, Position: 8.227m
- 5, Position: 10.438m

Foot Slides

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

Luff Curve

		Fanned Luff (@ 5.00% [0.227m])	Before BSeam
11.505m,	0.000m	100% (11.520m) :	0.000m
9.204m,	-0.263m	90% (10.374m) :	0.164m
6.903m,	-0.350m	80% (9.220m) :	0.312m
3.451m,	-0.263m	70% (8.069m) :	0.404m
0.000m,	0.000m	60% (6.915m) :	0.441m
		50% (5.762m) :	0.436m
		40% (4.608m) :	0.395m
		30% (3.456m) :	0.320m
		20% (2.303m) :	0.219m
		10% (1.152m) :	0.106m
		0% (0.000m) :	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	28.05
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	33.82	1,2,3,4,5 6,7,8,9,10

