

Mainsail: 7001006 Johannes-1 MainsailV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001006 Johannes

Initial Design Date: 14/10/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 13.700m
Leech geodesic: 14.305m
Foot geodesic: 4.500m
Head geodesic: 0.135m
Upper width (MUW): 0.873m
Three-quarter width (MTW): 1.584m
Half width (MHW): 2.788m
Quarter width (MQW): 3.723m
Foot median: 14.000m
ORC Mainsail area: 35.686m?
Surface area: 36.564m?
Clew height: 0.018m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.263m	0.277m	72.578?	11.249m	11.695m	Full
62.000%	2.313m	0.393m	72.578?	8.527m	8.842m	Full
42.000%	3.157m	0.350m	72.578?	5.806m	5.990m	Full
22.000%	3.839m	0.202m	72.578?	3.084m	3.138m	Full

Reefing Points

1, Luff: 1.849m ; Leech: 1.906m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 3.767m ; Leech: 3.879m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.425m ; Leech: 3.426m ;
2, Luff: 6.849m ; Leech: 6.988m ;
3, Luff: 10.274m ; Leech: 10.591m ;

Luff Slides

1, Position: 1.004m
2, Position: 2.009m
3, Position: 3.926m
4, Position: 4.839m
5, Position: 6.665m
6, Position: 7.578m
7, Position: 9.404m
8, Position: 10.317m
9, Position: 12.054m
10, Position: 12.877m

Luff Curve

		Fanned Luff (@ 5.00% [0.224m])	Before BSeam
13.700m,	0.000m	100% (13.700m) :	0.000m
11.993m,	-0.011m	90% (12.330m) :	0.036m
10.275m,	-0.019m	80% (10.960m) :	0.069m
8.553m,	-0.023m	70% (9.590m) :	0.094m
6.850m,	-0.023m	60% (8.220m) :	0.109m
5.105m,	-0.021m	50% (6.850m) :	0.112m
3.425m,	-0.017m	40% (5.480m) :	0.104m
1.707m,	-0.010m	30% (4.110m) :	0.087m
0.000m,	0.000m	20% (2.740m) :	0.061m
		10% (1.370m) :	0.029m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.016m	0.045m
Zone: 1/b	0.038m	0.016m	0.045m
Zone: 2/a	0.038m	0.016m	0.045m
Zone: 2/b	0.038m	0.016m	0.045m
Zone: 3/a	0.038m	0.016m	0.045m
Zone: 3/b	0.038m	0.016m	0.045m
Zone: 4	0.038m	0.016m	0.045m

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	8.44
Radial/Vertical	147.57
Bi-Radial Split	10.59

Materials

Material	Area (m ²)	Panels
Material 1	36.63	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1\13,1b\1,1b\2 1b\3,1b\4,1b\5,1b\6,1b\7 1b\8,1b\9,1b\10,1b\11,1b\12 1b\13,2\1,2\2,2\3,2\4 2\5,2\6,2b\1,2b\2,2b\3 2b\4,2b\5,2b\6,3\1,3\2 3\3,3\4,3b\1,3b\2,3b\3 3b\4,4\1,4\2,4\3,4\4 4\5,4\6

