

Mainsail: 7000620 Stéphane Outremer 40 Catamaran Mainsail - V1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000620 Stéphane\7000620 Stéphane

Initial Design Date: 16/8/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 13.330m
Leech geodesic: 14.067m
Foot geodesic: 5.030m
Head geodesic: 1.130m
Upper width (MUW): 1.565m
Three-quarter width (MTW): 2.235m
Half width (MHW): 3.380m
Quarter width (MQW): 4.352m
Foot median: 13.599m
ORC Mainsail area: 43.279m?
Surface area: 44.633m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
100.000%	1.499m	0.000m	113.243?	12.358m	13.993m	Full
85.719%	1.891m	0.123m	76.416?	11.355m	11.994m	Full
68.025%	2.691m	0.150m	76.416?	9.009m	9.519m	Full
45.323%	3.660m	0.199m	76.416?	6.001m	6.342m	Full
22.803%	4.460m	0.181m	76.416?	3.018m	3.191m	Full

Reefing Points

1, Luff: 2.020m ; Leech: 2.068m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 4.960m ; Leech: 5.084m ; Offset: 0.000m ; Number Eyelets: 0
3, Luff: 8.000m ; Leech: 8.214m ; Offset: 0.000m ; Number Eyelets: 0

Luff Slides

1, Position: 1.509m
2, Position: 4.509m
3, Position: 7.505m
4, Position: 10.182m

Luff Curve

		Fanned Luff (@ 5.00% [0.250m])	Before BSeam
13.329m,	0.000m	100% (13.330m) :	0.000m
9.997m,	-0.064m	90% (11.997m) :	0.051m
6.665m,	-0.085m	80% (10.664m) :	0.103m
3.332m,	-0.064m	70% (9.331m) :	0.141m
0.000m,	0.000m	60% (7.998m) :	0.162m
		50% (6.665m) :	0.169m
		40% (5.332m) :	0.161m
		30% (3.999m) :	0.137m
		20% (2.666m) :	0.093m
		10% (1.333m) :	0.041m
		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	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	10.22
Radial/Vertical	152.84
Bi-Radial Split	7.12

Materials

Material	Area (m ²)	Panels
Material 1	44.67	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, 3\5, 3\6, 3\7 3\8, 4\1, 4\2, 4\3, 4\4 4\5, 4\6

