

Mainsail: 7000306 Torodd-1 Mainsail.des

Design Info
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Design File:
\\Nas\工程部-专用文件\Queenie-跟进客户\Fareast Sails\2023 Order\Need Confrim Order\7000306 Torodd\7000306 Tor

Initial Design Date: 30/3/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	13.490m
Leech geodesic:	14.133m
Foot geodesic:	4.590m
Head geodesic:	0.115m
Upper width (MUW):	0.843m
Three-quarter width (MTW):	1.546m
Half width (MHW):	2.746m
Quarter width (MQW):	3.739m
Foot median:	13.794m
ORC Mainsail area:	35.040m?
Surface area:	35.747m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
81.474%	1.236m	0.171m	73.090?	10.983m	11.479m	Full
61.992%	2.236m	0.222m	73.090?	8.355m	8.734m	Full
41.904%	3.116m	0.196m	73.090?	5.646m	5.904m	Full
21.009%	3.892m	0.113m	73.090?	2.828m	2.960m	Full

Reefing Points

1, Luff: 1.753m ; Leech: 1.824m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 3.573m ; Leech: 3.716m ; Offset: 0.000m ; Number Eyelets: 3
3, Luff: 5.394m ; Leech: 5.607m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.371m ; Leech: 3.405m ;
2, Luff: 6.743m ; Leech: 6.943m ;
3, Luff: 10.115m ; Leech: 10.502m ;

Luff Slides

1, Position: 1.004m
2, Position: 2.144m
3, Position: 3.961m
4, Position: 4.794m
5, Position: 6.549m
6, Position: 7.452m
7, Position: 9.231m
8, Position: 10.107m
9, Position: 11.818m
10, Position: 12.654m

Luff Curve

		Fanned Luff (@ 5.00% [0.229m])	Before BSeam
13.489m,	0.000m	100% (13.490m) :	0.000m
11.808m,	-0.057m	90% (12.142m) :	0.069m
10.117m,	-0.089m	80% (10.792m) :	0.129m
8.094m,	-0.100m	70% (9.443m) :	0.167m
6.744m,	-0.100m	60% (8.094m) :	0.182m
5.026m,	-0.091m	50% (6.745m) :	0.181m
3.372m,	-0.072m	40% (5.396m) :	0.166m
1.681m,	-0.040m	30% (4.047m) :	0.137m
0.000m,	0.000m	20% (2.698m) :	0.097m
		10% (1.349m) :	0.048m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.014m	0.038m
Zone: 1/b	0.038m	0.014m	0.038m
Zone: 2/a	0.038m	0.014m	0.038m
Zone: 2/b	0.038m	0.014m	0.038m
Zone: 3	0.038m	0.014m	0.038m
Zone: 4	0.038m	0.014m	0.038m

Edge Excesses

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

Total Seam Lengths (m)

Horizontal	7.72
Radial/Vertical	156.48
Bi-Radial Split	7.68

Materials

Material	Area (m ²)	Panels
Material 1	35.81	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

