

Mainsail: 7000306 Torodd-1 MainsailV1.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: 13.540m
Leech geodesic: 14.171m
Foot geodesic: 4.590m
Head geodesic: 0.135m
Upper width (MUW): 0.832m
Three-quarter width (MTW): 1.514m
Half width (MHW): 2.704m
Quarter width (MQW): 3.711m
Foot median: 13.841m
ORC Mainsail area: 34.848m?
Surface area: 35.489m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
81.474%	1.205m	0.127m	73.090?	11.025m	11.512m	Full
61.992%	2.188m	0.166m	73.090?	8.389m	8.759m	Full
41.904%	3.071m	0.146m	73.090?	5.673m	5.921m	Full
21.009%	3.866m	0.084m	73.090?	2.848m	2.969m	Full

Reefing Points

1, Luff: 1.759m ; Leech: 1.835m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 3.587m ; Leech: 3.736m ; Offset: 0.000m ; Number Eyelets: 3
3, Luff: 5.414m ; Leech: 5.637m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.384m ; Leech: 3.425m ;
2, Luff: 6.768m ; Leech: 6.980m ;
3, Luff: 10.152m ; Leech: 10.548m ;

Luff Slides

1, Position: 1.007m
2, Position: 2.152m
3, Position: 3.975m
4, Position: 4.811m
5, Position: 6.573m
6, Position: 7.479m
7, Position: 9.265m
8, Position: 10.144m
9, Position: 11.862m
10, Position: 12.701m

Luff Curve

		Fanned Luff (@ 5.00% [0.229m])	Before BSeam
13.539m,	0.000m	100% (13.540m) :	0.000m
11.852m,	-0.057m	90% (12.187m) :	0.032m
10.154m,	-0.089m	80% (10.832m) :	0.058m
8.124m,	-0.100m	70% (9.478m) :	0.069m
6.769m,	-0.100m	60% (8.124m) :	0.071m
5.045m,	-0.091m	50% (6.770m) :	0.070m
3.385m,	-0.072m	40% (5.416m) :	0.065m
1.687m,	-0.040m	30% (4.062m) :	0.055m
0.000m,	0.000m	20% (2.708m) :	0.041m
		10% (1.354m) :	0.021m
		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	7.60
Radial/Vertical	156.95
Bi-Radial Split	7.71

Materials

Material	Area (m ²)	Panels
Material 1	35.55	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

