

# Mainsail: 7000306 Torodd-1 MainsailV2.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:	14.173m
Foot geodesic:	4.590m
Head geodesic:	0.135m
Upper width (MUW):	0.842m
Three-quarter width (MTW):	1.536m
Half width (MHW):	2.739m
Quarter width (MQW):	3.738m
Foot median:	13.842m
ORC Mainsail area:	35.130m?
Surface area:	35.824m?
Clew height:	0.100m
Mast rake:	0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
81.474%	1.224m	0.145m	73.090?	11.025m	11.512m	Full
61.992%	2.227m	0.201m	73.090?	8.389m	8.759m	Full
41.904%	3.110m	0.182m	73.090?	5.673m	5.921m	Full
21.009%	3.891m	0.108m	73.090?	2.848m	2.969m	Full

### Reefing Points

- 1, Luff: 1.759m ; Leech: 1.831m ; Offset: 0.000m ; Number Eyelets: 3
- 2, Luff: 3.587m ; Leech: 3.729m ; Offset: 0.000m ; Number Eyelets: 3
- 3, Luff: 5.414m ; Leech: 5.628m ; Offset: 0.000m ; Number Eyelets: 2

### Draft Stripes

- 1, Luff: 3.384m ; Leech: 3.417m ;
- 2, Luff: 6.768m ; Leech: 6.969m ;
- 3, Luff: 10.152m ; Leech: 10.541m ;

### 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) :	0.070m
5.045m,	-0.091m	50% (6.770m) :	0.069m
3.385m,	-0.072m	40% (5.416m) :	0.064m
1.687m,	-0.040m	30% (4.062m) :	0.055m
0.000m,	0.000m	20% (2.708m) :	0.040m
		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	7.69
Radial/Vertical	156.92
Bi-Radial Split	7.71

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	35.89	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

