

# Mainsail: 7000306 Torodd-1 MainsailV3.des

## Design Info

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Initial Design Date: 30/3/2023  
Boat:

Client:

## 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

Comments:

## Design Data

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### Main

#### Measurements

|                            |                      |
|----------------------------|----------------------|
| Luff geodesic:             | 13.540m              |
| Leech geodesic:            | 14.190m              |
| Foot geodesic:             | 4.590m               |
| Head geodesic:             | 0.133m               |
| Upper width (MUW):         | 0.953m               |
| Three-quarter width (MTW): | 1.742m               |
| Half width (MHW):          | 2.959m               |
| Quarter width (MQW):       | 3.831m               |
| Foot median:               | 13.848m              |
| ORC Mainsail area:         | 36.898m <sup>2</sup> |
| Surface area:              | 37.915m <sup>2</sup> |
| Clew height:               | 0.100m               |
| Mast rake:                 | 0.000m               |

### Battens

| Position | Length | Roach  | Angle   | Luff    | Leech   | Full |
|----------|--------|--------|---------|---------|---------|------|
| 80.796%  | 1.478m | 0.349m | 73.090? | 10.933m | 11.418m | Full |
| 61.542%  | 2.537m | 0.467m | 73.090? | 8.328m  | 8.697m  | Full |
| 41.348%  | 3.329m | 0.368m | 73.090? | 5.596m  | 5.843m  | Full |
| 20.831%  | 3.973m | 0.189m | 73.090? | 2.822m  | 2.944m  | Full |

### Reefing Points

1, Luff: 1.760m ; Leech: 1.818m ; Offset: 0.000m ; Number Eyelets: 3  
2, Luff: 3.587m ; Leech: 3.702m ; Offset: 0.000m ; Number Eyelets: 3  
3, Luff: 5.414m ; Leech: 5.583m ; Offset: 0.000m ; Number Eyelets: 2

### Draft Stripes

1, Luff: 3.384m ; Leech: 3.391m ;  
2, Luff: 6.768m ; Leech: 6.910m ;  
3, Luff: 10.152m ; Leech: 10.479m ;

### 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) :                | 0.072m       |
| 10.154m, | -0.091m | 80% (10.832m) :                | 0.137m       |
| 8.124m,  | -0.100m | 70% (9.478m) :                 | 0.176m       |
| 6.769m,  | -0.097m | 60% (8.124m) :                 | 0.189m       |
| 5.045m,  | -0.084m | 50% (6.770m) :                 | 0.182m       |
| 3.385m,  | -0.061m | 40% (5.416m) :                 | 0.161m       |
| 1.687m,  | -0.032m | 30% (4.062m) :                 | 0.127m       |
| 0.000m,  | 0.000m  | 20% (2.708m) :                 | 0.085m       |
|          |         | 10% (1.354m) :                 | 0.040m       |
|          |         | 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      | 8.30   |
| Radial/Vertical | 156.82 |
| Bi-Radial Split | 7.69   |

## Materials

| Material   | Area (m <sup>2</sup> ) | Panels  |
|------------|------------------------|---|
| Material 1 | 37.98                  | 1\1, 1\2, 1\3, 1\4, 1\5<br>1\6, 1\7, 1\8, 1\9, 1\10<br>1\11, 1\12, 1\13, 1b\1, 1b\2<br>1b\3, 1b\4, 1b\5, 1b\6, 1b\7<br>1b\8, 1b\9, 1b\10, 1b\11, 1b\12<br>1b\13, 2\1, 2\2, 2\3, 2\4<br>2\5, 2\6, 2b\1, 2b\2, 2b\3<br>2b\4, 2b\5, 2b\6, 3\1, 3\2<br>3\3, 3\4, 3\5, 3\6, 3\7<br>3\8, 4\1, 4\2, 4\3, 4\4<br>4\5, 4\6 |

