

Mainsail: 7000502 Bert Classe Mini 6.50 SQT MainsailV2.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000502 Bert\7000502

Initial Design Date: 8/5/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 8.900m
Leech geodesic: 9.426m
Foot geodesic: 3.160m
Head geodesic: 1.600m
Upper width (MUW): 0.000m
Three-quarter width (MTW): 2.281m
Half width (MHW): 2.790m
Quarter width (MQW): 3.039m
Foot median: 9.129m
ORC Mainsail area: 21.176m?
Surface area: 24.250m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

| Position | Length | Roach | Angle | Luff | Leech | Full |
|----------|--------|--------|----------|--------|--------|------|
| 100.000% | 1.936m | 0.000m | 111.800? | 7.867m | 9.362m | Full |
| 89.515% | 2.155m | 0.287m | 89.150? | 7.660m | 8.381m | Full |
| 78.954% | 2.425m | 0.361m | 85.548? | 6.828m | 7.392m | Full |
| 56.263% | 2.772m | 0.338m | 82.103? | 4.939m | 5.268m | Full |
| 38.101% | 2.962m | 0.264m | 82.103? | 3.333m | 3.567m | Full |
| 19.143% | 3.088m | 0.150m | 82.103? | 1.657m | 1.792m | Full |

Reefing Points

1, Luff: 1.112m ; Leech: 1.118m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 2.758m ; Leech: 2.899m ; Offset: 0.000m ; Number Eyelets: 3
3, Luff: 4.627m ; Leech: 4.871m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 2.224m ; Leech: 2.157m ;
2, Luff: 4.449m ; Leech: 4.401m ;
3, Luff: 6.674m ; Leech: 6.655m ;

Luff Curve

| | | Fanned Luff (@ 5.00% [0.157m]) | Before BSeam |
|---------|---------|--------------------------------|--------------|
| 8.900m, | 0.000m | 100% (8.900m) : | 0.000m |
| 7.791m, | -0.022m | 90% (8.010m) : | 0.055m |
| 6.675m, | -0.037m | 80% (7.120m) : | 0.096m |
| 5.556m, | -0.044m | 70% (6.230m) : | 0.114m |
| 4.450m, | -0.044m | 60% (5.340m) : | 0.117m |
| 3.316m, | -0.041m | 50% (4.450m) : | 0.112m |
| 2.225m, | -0.033m | 40% (3.560m) : | 0.101m |
| 1.109m, | -0.019m | 30% (2.670m) : | 0.082m |
| 0.000m, | 0.000m | 20% (1.780m) : | 0.057m |
| | | 10% (0.890m) : | 0.027m |
| | | 0% (0.000m) : | 0.000m |

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Seam Allowances

| Zone: | Split | Radial | Cross |
|---------|--------|--------|--------|
| Zone: 1 | 0.025m | 0.015m | 0.025m |
| Zone: 2 | 0.025m | 0.015m | 0.025m |
| Zone: 3 | 0.025m | 0.015m | 0.025m |

Edge Excesses

| Sail: | Luff | Leech | Foot |
|-------|--------|--------|--------|
| | 0.000m | 0.000m | 0.000m |

Total Seam Lengths (m)

| | |
|-----------------|-------|
| Horizontal | 19.44 |
| Radial/Vertical | 52.88 |
| Bi-Radial Split | 0.00 |

Materials

| Material | Area (m ²) | Panels |
|------------|------------------------|--|
| Material 1 | 24.26 | 1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,2\1,2\2,2\3 2\4,2\5,2\6,3\1,3\2 3\3,3\4,3\5,3\6,3\7 3\8,3\9,3\10 |

