

Mainsail: 7000502 Bert Classe Mini 6.50 SQT MainsailV1.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: 9.404m
 Foot geodesic: 3.090m
 Head geodesic: 1.600m
 Upper width (MUW): 0.000m
 Three-quarter width (MTW): 2.314m
 Half width (MHW): 2.744m
 Quarter width (MQW): 2.968m
 Foot median: 9.123m
 ORC Mainsail area: 20.894m?
 Surface area: 23.959m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
100.000%	1.926m	0.000m	111.800?	7.885m	9.341m	Full
89.324%	2.190m	0.336m	87.624?	7.706m	8.344m	Full
79.174%	2.455m	0.410m	85.548?	6.864m	7.396m	Full
56.263%	2.727m	0.325m	82.103?	4.957m	5.255m	Full
38.101%	2.897m	0.245m	82.103?	3.353m	3.559m	Full
19.143%	3.012m	0.132m	82.103?	1.679m	1.788m	Full

Reefing Points

- 1, Luff: 1.112m ; Leech: 1.118m ; Offset: 0.000m ; Number Eyelets: 3
- 2, Luff: 2.758m ; Leech: 2.900m ; Offset: -0.100m ; Number Eyelets: 3
- 3, Luff: 4.627m ; Leech: 4.870m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

- 1, Luff: 2.224m ; Leech: 2.158m ;
- 2, Luff: 4.449m ; Leech: 4.401m ;
- 3, Luff: 6.674m ; Leech: 6.646m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.154m])	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) :	0.097m
5.556m,	-0.044m	70% (6.230m) :	0.114m
4.450m,	-0.044m	60% (5.340m) :	0.115m
3.316m,	-0.041m	50% (4.450m) :	0.110m
2.225m,	-0.033m	40% (3.560m) :	0.098m
1.109m,	-0.019m	30% (2.670m) :	0.080m
0.000m,	0.000m	20% (1.780m) :	0.056m
		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
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	19.21
Radial/Vertical	52.44
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	23.97	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

