

Mainsail: 7000502 Bert Classe Mini 6.50 SQT Mainsail.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: 9.394m
 Foot geodesic: 3.060m
 Head geodesic: 1.600m
 Upper width (MUW): 0.000m
 Three-quarter width (MTW): 2.301m
 Half width (MHW): 2.730m
 Quarter width (MQW): 2.946m
 Foot median: 9.120m
 ORC Mainsail area: 20.759m?
 Surface area: 23.826m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
100.000%	1.967m	0.000m	113.759?	7.814m	9.332m	Full
89.324%	2.197m	0.338m	89.328?	7.658m	8.336m	Full
74.922%	2.520m	0.410m	85.548?	6.492m	6.992m	Full
56.263%	2.713m	0.325m	82.103?	4.965m	5.250m	Full
38.101%	2.878m	0.245m	82.103?	3.362m	3.556m	Full
19.143%	2.987m	0.132m	82.103?	1.688m	1.786m	Full

Reefing Points

1, Luff: 1.112m ; Leech: 1.117m ; Offset: 0.000m ; Number Eyelets: 3
 2, Luff: 2.669m ; Leech: 2.681m ; Offset: 0.000m ; Number Eyelets: 3
 3, Luff: 4.004m ; Leech: 4.022m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.025m ; Leech: 2.965m ;
 2, Luff: 5.962m ; Leech: 5.925m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.152m])	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) :	0.114m
3.316m,	-0.041m	50% (4.450m) :	0.109m
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) :	0.055m
		10% (0.890m) :	0.027m
		0% (0.000m) :	0.000m

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Seam Allowances

	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

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	22.58
Radial/Vertical	54.99
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	23.84	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\6,2\7,3\1 3\2,3\3,3\4,3\5,3\6 3\7,3\8,3\9,3\10

