

Mainsail: 8000316 Tobias Baltic 42 C&C fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000316 Tobias B

Initial Design Date: 16/3/2024
Boat:
Baltic 42
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 15.543m
Leech geodesic: 15.972m
Foot geodesic: 3.930m
Head geodesic: 0.115m
Upper width (MUW): 0.918m
Three-quarter width (MTW): 1.635m
Half width (MHW): 2.705m
Quarter width (MQW): 3.429m
Foot median: 15.647m
ORC Mainsail area: 38.129m?
Surface area: 38.746m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.332m	0.433m	77.718?	12.739m	13.062m	Full
62.000%	2.306m	0.577m	77.718?	9.630m	9.876m	Full
42.000%	3.011m	0.509m	77.718?	6.521m	6.690m	Full
22.000%	3.511m	0.293m	77.718?	3.413m	3.504m	Full

Reefing Points

1, Luff: 4.273m ; Leech: 4.324m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.885m ; Leech: 3.841m ;
2, Luff: 7.770m ; Leech: 7.803m ;
3, Luff: 11.655m ; Leech: 11.807m ;

Luff Slides

1, Position: 1.138m
2, Position: 2.276m
3, Position: 4.666m
4, Position: 5.637m
5, Position: 7.558m
6, Position: 8.594m
7, Position: 10.666m
8, Position: 11.703m
9, Position: 13.674m
10, Position: 14.608m

Luff Curve

		Fanned Luff (@ 5.00% [0.196m])	Before BSeam
15.542m,	0.000m	100% (15.543m) :	-0.000m 0.000m
13.606m,	-0.036m	90% (13.989m) :	0.021m 0.056m
11.657m,	-0.062m	80% (12.434m) :	0.038m 0.103m
9.703m,	-0.073m	70% (10.880m) :	0.048m 0.133m
7.771m,	-0.074m	60% (9.326m) :	0.051m 0.148m
5.791m,	-0.068m	50% (7.772m) :	0.051m 0.150m
3.886m,	-0.055m	40% (6.217m) :	0.048m 0.141m
1.937m,	-0.031m	30% (4.663m) :	0.041m 0.120m
0.000m,	0.000m	20% (3.108m) :	0.030m 0.089m
		10% (1.554m) :	0.015m 0.046m
		0% (0.000m) :	0.000m 0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.080m	0.080m	0.080m

Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	11.12
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	38.37	1,2,3,4,5

