

# Mainsail: 8000316 Tobias Baltic 42 C&C fullbattmainV1.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: 27/3/2024  
Boat:  
Baltic 42  
Client:

Comments:

Design Data  
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## Main

### Measurements

Luff geodesic: 15.650m  
Leech geodesic: 16.078m  
Foot geodesic: 3.930m  
Head geodesic: 0.115m  
Upper width (MUW): 0.880m  
Three-quarter width (MTW): 1.592m  
Half width (MHW): 2.712m  
Quarter width (MQW): 3.470m  
Foot median: 15.754m  
ORC Mainsail area: 38.378m?  
Surface area: 39.002m?  
Clew height: 0.100m  
Mast rake: 0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.267m	0.371m	77.708?	12.828m	13.149m	Full
62.000%	2.297m	0.569m	77.708?	9.698m	9.942m	Full
42.000%	3.030m	0.527m	77.708?	6.569m	6.735m	Full
22.000%	3.557m	0.337m	77.708?	3.441m	3.528m	Full

### Reefing Points

1, Luff: 4.146m ; Leech: 4.190m ; Offset: 0.000m ; Number Eyelets: 3

### Draft Stripes

1, Luff: 3.911m ; Leech: 3.864m ;  
2, Luff: 7.823m ; Leech: 7.857m ;  
3, Luff: 11.736m ; Leech: 11.897m ;

### Luff Slides

1, Position: 1.146m  
2, Position: 2.292m  
3, Position: 4.698m  
4, Position: 5.675m  
5, Position: 7.610m  
6, Position: 8.653m  
7, Position: 10.740m  
8, Position: 11.783m  
9, Position: 13.768m  
10, Position: 14.709m

### Luff Curve

		Fanned Luff (@ 5.00% [0.196m])	Before BSeam
15.649m,	0.000m	100% (15.650m) :	-0.000m
13.699m,	-0.036m	90% (14.085m) :	0.055m
11.737m,	-0.062m	80% (12.520m) :	0.102m
9.770m,	-0.073m	70% (10.955m) :	0.133m
7.825m,	-0.074m	60% (9.390m) :	0.149m
5.831m,	-0.068m	50% (7.825m) :	0.151m
3.912m,	-0.055m	40% (6.260m) :	0.143m
1.950m,	-0.031m	30% (4.695m) :	0.122m
0.000m,	0.000m	20% (3.130m) :	0.090m
		10% (1.565m) :	0.046m
		0% (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 <sup>2</sup> )	Panels
Material 1	38.61	1,2,3,4,5

