

Mainsail: 8000810 Henrik Bavaria42 Radial vertbattfurlmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000810 Henrik m

Initial Design Date: 15/8/2024
Boat:
Bavaria 42 verbatt
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 16.280m
Leech geodesic: 16.740m
Foot geodesic: 5.320m
Head geodesic: 0.045m
Upper width (MUW): 0.894m
Three-quarter width (MTW): 1.648m
Half width (MHW): 2.967m
Quarter width (MQW): 4.161m
Foot median: 16.346m
ORC Mainsail area: 46.732m?
Surface area: 47.060m?
Clew height: 0.379m
Mast rake: 0.150m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
92.000%	14.858m	0.122m	161.685?	181.969m	15.367m	
76.000%	12.720m	0.227m	161.685?	481.510m	12.695m	
59.000%	10.010m	0.207m	161.685?	799.770m	9.855m	
42.000%	7.160m	0.141m	161.685?	1118.029m	7.016m	
25.000%	4.300m	0.077m	161.685?	1436.292m	4.176m	

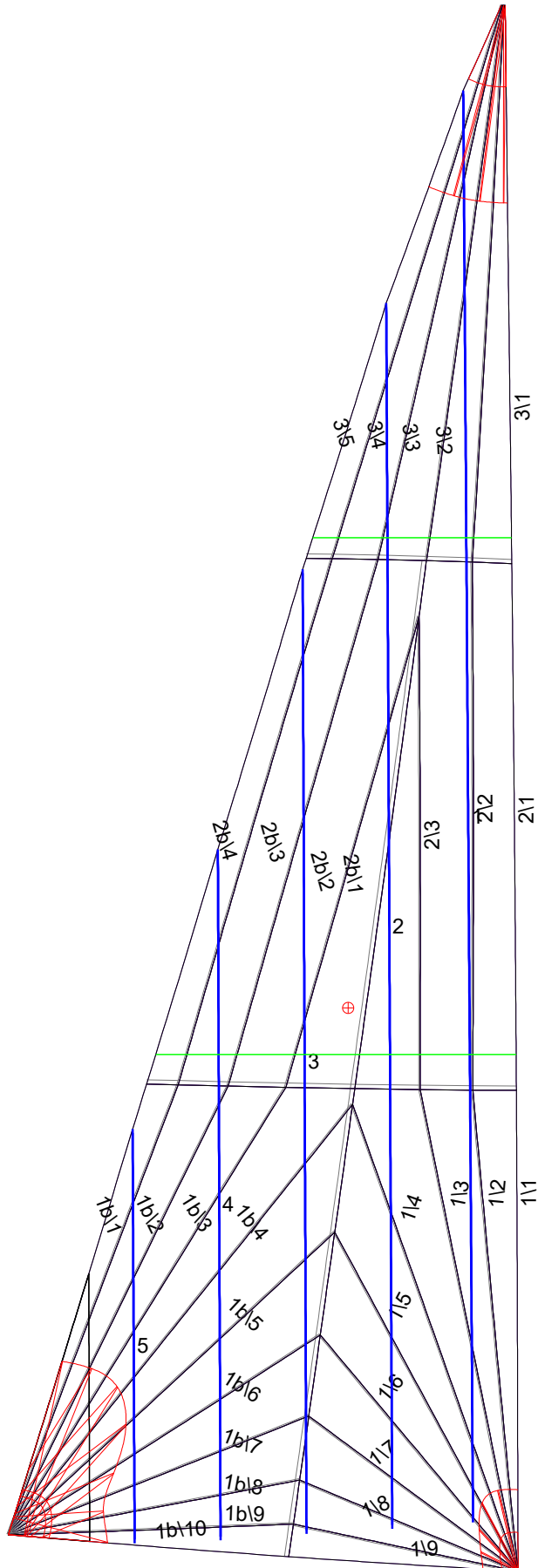
Draft Stripes

1, Luff: 5.371m ; Leech: 5.234m ;
2, Luff: 10.743m ; Leech: 10.844m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.265m])	Before BSeam
16.280m,	0.000m	100% (16.280m) :	0.000m -0.000m
14.193m,	-0.006m	90% (14.652m) :	0.003m 0.036m
12.210m,	-0.014m	80% (13.024m) :	0.008m 0.073m
8.140m,	-0.025m	70% (11.396m) :	0.012m 0.103m
4.070m,	-0.020m	60% (9.768m) :	0.014m 0.120m
0.000m,	0.000m	50% (8.140m) :	0.014m 0.122m
		40% (6.512m) :	0.012m 0.110m
		30% (4.884m) :	0.009m 0.089m
		20% (3.256m) :	0.005m 0.060m
		10% (1.628m) :	0.001m 0.029m
		0% (0.000m) :	0.000m 0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.045m	0.015m	0.045m
Zone: 1/b	0.045m	0.015m	0.045m
Zone: 2/a	0.045m	0.015m	0.045m
Zone: 2/b	0.045m	0.015m	0.045m
Zone: 3	0.045m	0.015m	0.045m
Cover 1	0.000m	0.000m	0.000m
Cover 2	0.000m	0.000m	0.000m

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.000m	0.070m	0.070m
Cover 1	0.000m	0.070m	0.070m

Total Seam Lengths (m)

Horizontal	6.24
Radial/Vertical	120.51
Bi-Radial Split	10.80

Materials

Material	Area (m ²)	Panels
Material 1	33.62	1\3, 1\4, 1\6, 1\8, 1\9 1b\1, 1b\2, 1b\3, 1b\4, 1b\5 1b\7, 1b\9, 1b\10, 2\3, 2b\1 2b\2, 2b\3, 2b\4, 3\1, 3\2 3\3, 3\4, 3\5
Material 2	13.47	1\1, 1\2, 1\5, 1\7, 1b\6 1b\8, 2\1, 2\2