

# Mainsail: 8000420 Thorsten-1 Bavaria34 vertfurlmain.des

## Job Number:

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000420 Thorsten

Job No:  
Initial Design Date: 23/4/2024  
Boat:  
Bavaria 34  
Client:

Comments:

Design Data  
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### Main

#### Measurements

Luff geodesic: 10.900m  
Leech geodesic: 11.372m  
Foot geodesic: 4.080m  
Head geodesic: 0.030m  
Upper width (MUW): 0.717m  
Three-quarter width (MTW): 1.298m  
Half width (MHW): 2.309m  
Quarter width (MQW): 3.219m  
Foot median: 10.994m  
ORC Mainsail area: 24.275m?  
Surface area: 24.540m?  
Clew height: 0.250m  
Mast rake: 0.150m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
92.000%	2.000m	0.117m	159.262?	65.228m	10.430m	
76.000%	2.200m	0.220m	159.262?	164.643m	8.616m	
59.000%	2.400m	0.202m	159.262?	270.270m	6.689m	
42.000%	2.400m	0.153m	159.262?	375.898m	4.762m	
25.000%	2.000m	0.095m	159.262?	481.525m	2.834m	

### Draft Stripes

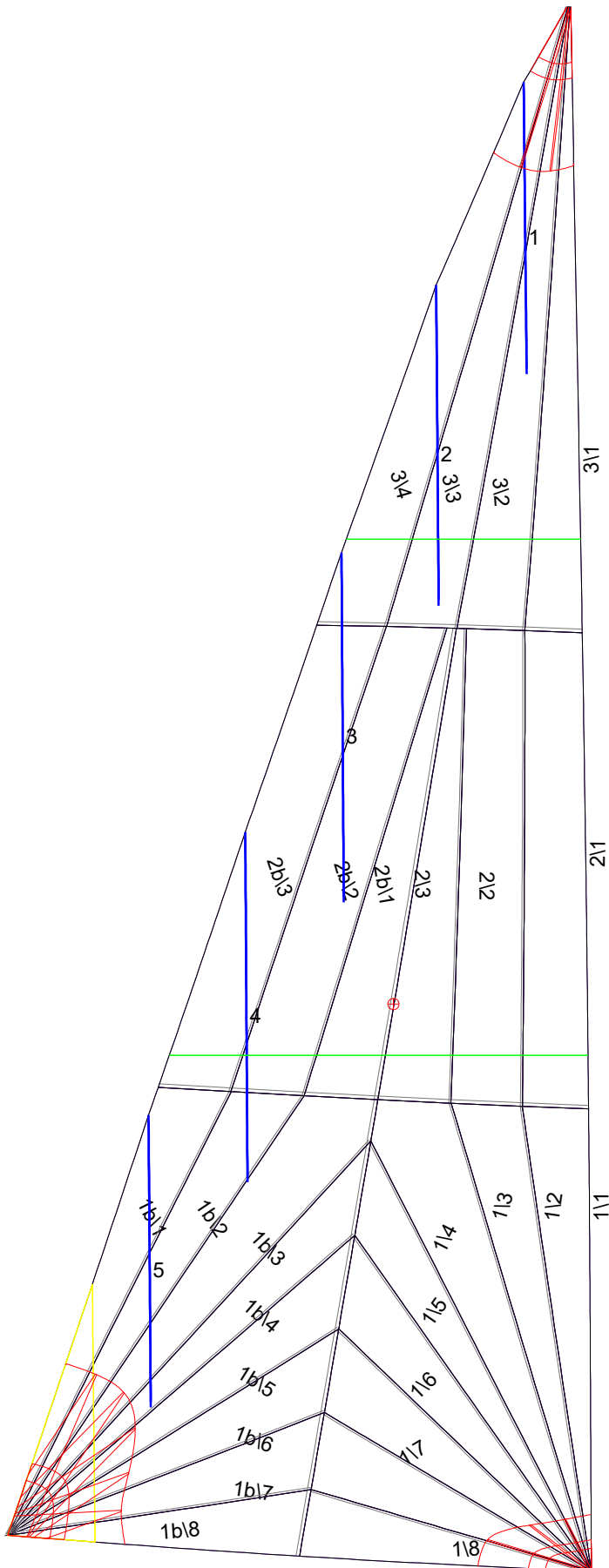
1, Luff: 3.595m ; Leech: 3.541m ;  
2, Luff: 7.193m ; Leech: 7.339m ;

### Luff Curve

		Fanned Luff (@ 5.00% [0.203m])	Before BSeam
10.900m,	0.000m	100% (10.900m) :	-0.000m
9.502m,	-0.006m	90% (9.810m) :	0.029m
8.175m,	-0.014m	80% (8.720m) :	0.055m
5.450m,	-0.025m	70% (7.630m) :	0.077m
2.725m,	-0.020m	60% (6.540m) :	0.090m
0.000m,	0.000m	50% (5.450m) :	0.091m
		40% (4.360m) :	0.082m
		30% (3.270m) :	0.066m
		20% (2.180m) :	0.044m
		10% (1.090m) :	0.019m
		0% (0.000m) :	0.000m

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### Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.025m
Zone: 1/b	0.025m	0.015m	0.025m
Zone: 2/a	0.025m	0.015m	0.025m
Zone: 2/b	0.025m	0.015m	0.025m
Zone: 3	0.025m	0.015m	0.025m
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	5.04
Radial/Vertical	68.03
Bi-Radial Split	6.72

### Materials

Material	Area (m²)	Panels
Material 1	24.57	1/1, 1/2, 1/3, 1/4, 1/5 1/6, 1/7, 1/8, 1b1, 1b2 1b3, 1b4, 1b5, 1b6, 1b7 1b8, 2/1, 2/2, 2/3, 2b1 2b2, 2b3, 3/1, 3/2, 3/3 3/4