

# Mainsail: 8000901 Francisco Bavaria 44 vertbatfurlmain.des

## Boding Sails / Jonas BodingDesign: Azure Project v5.0, Sandy Goodall

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000901 Francisco

Initial Design Date: 4/9/2024  
Boat: Bavaria 44  
Client: Boding Sails / Jonas Boding  
Design: Azure Project v5.0, Sandy Goodall

Design Data  
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Comments:  
Bavaria 44 AC, 9/10 rig, MXL vertbat FAT furl, 51.6 m2  
split head  
P = 15.20 m, E = 5.60 m  
Luff = 15.0 m, Leech = 15.73 m, Foot = 5.50 m  
no reefs (in mast furling)  
4 full length vertical battens, + 4 short vertical battens  
Batten lengths, from top:  
200 cm, 1372 cm, 210 cm, 1207 cm, 220 cm, 921 cm  
220 cm, 543 cm  
special patches

Main

Measurements

Luff geodesic:	15.000m
Leech geodesic:	15.731m
Foot geodesic:	5.500m
Head geodesic:	0.300m
Upper width (MUW):	1.360m
Three-quarter width (MTW):	2.185m
Half width (MHW):	3.500m
Quarter width (MQW):	4.541m
Foot median:	15.152m
ORC Mainsail area:	49.442m <sup>2</sup>
Surface area:	50.647m <sup>2</sup>
Clew height:	0.270m
Mast rake:	0.150m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
99.900%	2.000m	0.000m	160.521?	69.368m	15.652m	
92.430%	13.720m	0.242m	160.521?	138.871m	14.481m	
83.026%	2.100m	0.446m	160.521?	226.367m	13.008m	
73.924%	12.070m	0.554m	160.521?	311.055m	11.582m	
62.731%	2.200m	0.610m	160.521?	415.197m	9.828m	
52.276%	9.210m	0.602m	160.521?	512.473m	8.190m	
39.483%	2.200m	0.526m	160.521?	631.492m	6.186m	
28.044%	5.430m	0.409m	160.521?	737.925m	4.394m	

Luff Curve

		Fanned Luff (@ 5.00% [0.274m])	Before BSeam
15.000m,	0.000m	100% (15.000m) :	-0.000m 0.000m
13.077m,	-0.011m	90% (13.500m) :	0.005m 0.031m
11.250m,	-0.021m	80% (12.000m) :	0.012m 0.064m
7.500m,	-0.033m	70% (10.500m) :	0.017m 0.091m
3.750m,	-0.028m	60% (9.000m) :	0.019m 0.104m
0.000m,	0.000m	50% (7.500m) :	0.020m 0.101m
		40% (6.000m) :	0.020m 0.088m
		30% (4.500m) :	0.017m 0.070m
		20% (3.000m) :	0.012m 0.045m
		10% (1.500m) :	0.005m 0.018m
		0% (0.000m) :	0.000m 0.000m

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Seam Allowances			
	Split	Radial	Cross
Zone: 1	0.038m	0.038m	0.038m
Zone: 2	0.038m	0.038m	0.038m
Cover 1	0.025m	0.025m	0.025m
Cover 2	0.025m	0.025m	0.025m

Edge Excesses			
	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	nan
Radial/Vertical	3.23
Bi-Radial Split	0.00

### Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	nan	1\1, 1\2, 1\3, 1\4, 1\5 1\6, 1\7, 1\8, 1\9, 1\10 1\11, 1\12
Material 3	4.16	2\1, 2\2

