

# Mainsail: 8000901 Francisco Bavaria44 IMfurlingmainV1.des

## Design Info =====

Initial Design Date: 6/9/2024  
Boat:  
Bavaria44 IMfurlingmain  
Client:

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

Comments:  
tack angle 86.5deg

## Design Data =====

### Main

#### Measurements

Luff geodesic: 14.850m  
Leech geodesic: 15.546m  
Foot geodesic: 5.500m  
Head geodesic: 0.032m  
Upper width (MUW): 0.635m  
Three-quarter width (MTW): 1.249m  
Half width (MHW): 2.618m  
Quarter width (MQW): 4.041m  
Foot median: 14.999m  
ORC Mainsail area: 39.614m?  
Surface area: 39.449m?  
Clew height: 0.100m  
Mast rake: 0.000m

Luff Curve		Fanned Luff (@ 5.00% [0.274m])	Before BSeam	
14.850m,	0.000m	100% (14.850m) :	0.000m	-0.000m
12.999m,	-0.021m	90% (13.365m) :	0.014m	0.034m
11.137m,	-0.036m	80% (11.880m) :	0.026m	0.064m
9.271m,	-0.043m	70% (10.395m) :	0.033m	0.089m
7.425m,	-0.045m	60% (8.910m) :	0.036m	0.106m
5.533m,	-0.041m	50% (7.425m) :	0.035m	0.114m
3.712m,	-0.033m	40% (5.940m) :	0.032m	0.111m
1.851m,	-0.019m	30% (4.455m) :	0.027m	0.096m
0.000m,	0.000m	20% (2.970m) :	0.019m	0.070m
		10% (1.485m) :	0.009m	0.036m
		0% (0.000m) :	0.000m	0.000m

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## Seam Allowances

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

## 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	33.84
Radial/Vertical	0.00
Bi-Radial Split	0.00

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	39.50	1,2,3,4,5 6,7,8,9,10 11,12,13

