

Mainsail: 6001226 Daniel FMain Bavaria 30 cruiser-V2.des

Daniel Peter Job Number: 6001226 Daniel

Design Info
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Design File:
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Job No: 6001226 Daniel
Initial Design Date: 31/12/2022
Boat:
Bavaria 30 Cruiser
Client:
Daniel Peter

Comments:
Bavaria 30, FR rig, radial cut
Luff = max 11.037m, Leech = 11.362 m, Foot = 4.12 m
4 vertical batten,
radial seams = 15 mm, zone seams = 25 mm
clew radial patches ,fan patch at head &tack.
2 Draft stripe, Clew UV cover

Design Data
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Main

Measurements

Luff geodesic: 10.917m
Leech geodesic: 11.259m
Foot geodesic: 4.100m
Head geodesic: 0.040m
Upper width (MUW): 0.614m
Three-quarter width (MTW): 1.174m
Half width (MHW): 2.221m
Quarter width (MQW): 3.182m
Foot median: 10.955m
ORC Mainsail area: 23.611m?
Surface area: 23.681m?
Clew height: 0.429m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.400m	0.077m	158.996?	143.056m	8.987m	
60.000%	1.400m	0.082m	158.996?	269.003m	6.740m	
40.000%	1.400m	0.057m	158.996?	394.947m	4.494m	
21.000%	1.400m	0.032m	158.996?	514.596m	2.359m	

Reefing Points

1, Luff: 0.000m ; Leech: 0.000m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 0.000m ; Leech: 0.000m ; Offset: 0.000m ; Number Eyelets: 0
3, Luff: 0.000m ; Leech: 0.000m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 3.601m ; Leech: 3.400m ;
2, Luff: 7.203m ; Leech: 7.244m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.203m])	Before BSeam
10.917m,	0.000m	100% (10.917m) :	-0.000m
9.557m,	-0.009m	90% (9.826m) :	0.004m
8.188m,	-0.016m	80% (8.734m) :	0.009m
6.816m,	-0.019m	70% (7.642m) :	0.011m
5.459m,	-0.020m	60% (6.550m) :	0.012m
4.068m,	-0.019m	50% (5.459m) :	0.011m
2.729m,	-0.015m	40% (4.367m) :	0.009m
1.360m,	-0.008m	30% (3.275m) :	0.007m
0.000m,	0.000m	20% (2.183m) :	0.004m
		10% (1.092m) :	0.001m
		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	0.000m	0.000m
Cover 1	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	4.60
Radial/Vertical	78.35
Bi-Radial Split	7.35

Materials

Material	Area (m ²)	Panels
Material 1	23.72	1\1, 1\2, 1\3, 1\4, 1\5 1\6, 1\7, 1\8, 1\9, 1\10 1b\1, 1b\2, 1b\3, 1b\4, 1b\5 1b\6, 1b\7, 1b\8, 1b\9, 1b\10 2\1, 2\2, 2\3, 2b\1, 2b\2 2b\3, 3\1, 3\2, 3\3, 3\4

