

Genoa: 6001226 Daniel Bavaria 30 cruiser genoa-V1.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: 31/1/2012
Boat:
Bavaria 30 Cruiser
Client:
Daniel Peter

Comments:
Bavaria 30, FR rig, Tri-radial furlgen,
I = approx. 13.00 m, J = 2.75 m
Luff = max10.80 m, Leech = 10.12 m, Foot = 4.52 m
LP = 4.13 m (138%%)
radial seams = 15 mm, zone seams = 35 mm
clew radial patches, fan patch at head & tack
2 Draft stripe

Design Data
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Genoa

Measurements

Luff geodesic: 10.700m
Leech geodesic: 10.100m
Foot geodesic: 4.500m
Headboard width: 0.040m
Luff perpendicular (HLP): 4.250m
Upper width (HUW): 0.465m
Three-quarter width (HTW): 0.922m
Half width (HHW): 1.971m
Quarter width (HQW): 3.078m
Foot median: 10.301m
ORC Headsail area: 21.797m?
IRC Headsail area: 21.748m?
Surface area: 21.943m?
Forestay height: 13.000m
J: 3.000m

Draft Stripes

1, Luff: 3.545m ; Leech: 3.093m ;
2, Luff: 7.085m ; Leech: 6.534m ;

Luff Curve

10.698m, 0.000m
9.809m, 0.036m
8.826m, 0.066m
7.960m, 0.081m
6.954m, 0.087m
5.324m, 0.076m
3.477m, 0.052m
1.808m, 0.026m
0.000m, 0.000m

Fanned Luff (@ 5.00% [0.221m])		Before BSeam
100% (10.698m) :	0.000m	-0.000m
90% (9.628m) :	-0.041m	-0.013m
80% (8.560m) :	-0.075m	-0.020m
70% (7.489m) :	-0.089m	-0.011m
60% (6.419m) :	-0.088m	0.006m
50% (5.349m) :	-0.079m	0.019m
40% (4.280m) :	-0.066m	0.027m
30% (3.209m) :	-0.050m	0.028m
20% (2.140m) :	-0.033m	0.024m
10% (1.069m) :	-0.017m	0.014m
0% (0.000m) :	0.000m	0.000m

Seams: Tripple stitched
Material: Challenge Sailcloth 6.11 Warp - Drive

Sail head: webbing loop
Sail tack: webbing loop
Sail clew: Ring with ID > 25mm diameter, reinforced by
min. 3 webbings

!Max luff including webbings: 10800mm!

Foam luff for profile stabilization in reefed condition
Luff tape: 5mm

UV Cover: on starboard over the edge of the sail,
Material Sunbrella 9oz, color white

Leech string with aluminium cleat, e.g. Clamcleat CL241
Foot string with aluminium cleat, e.g. Clamcleat CL241

Reef marks: 3

Draft stripes: 2, color blue, with ~40mm

Tell tales: 10 on both sides, color blue, ripstop material

The following dimensions have to be checked after production and before shipping
to prevent from return shipments!

Max luff including webbings: 10.800m

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D. Peter

Seam Allowances			
	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	0.025m	0.025m	0.025m
Cover 2	0.025m	0.025m	0.025m
Cover 3	0.000m	0.000m	0.000m
Cover 4	0.000m	0.000m	0.000m

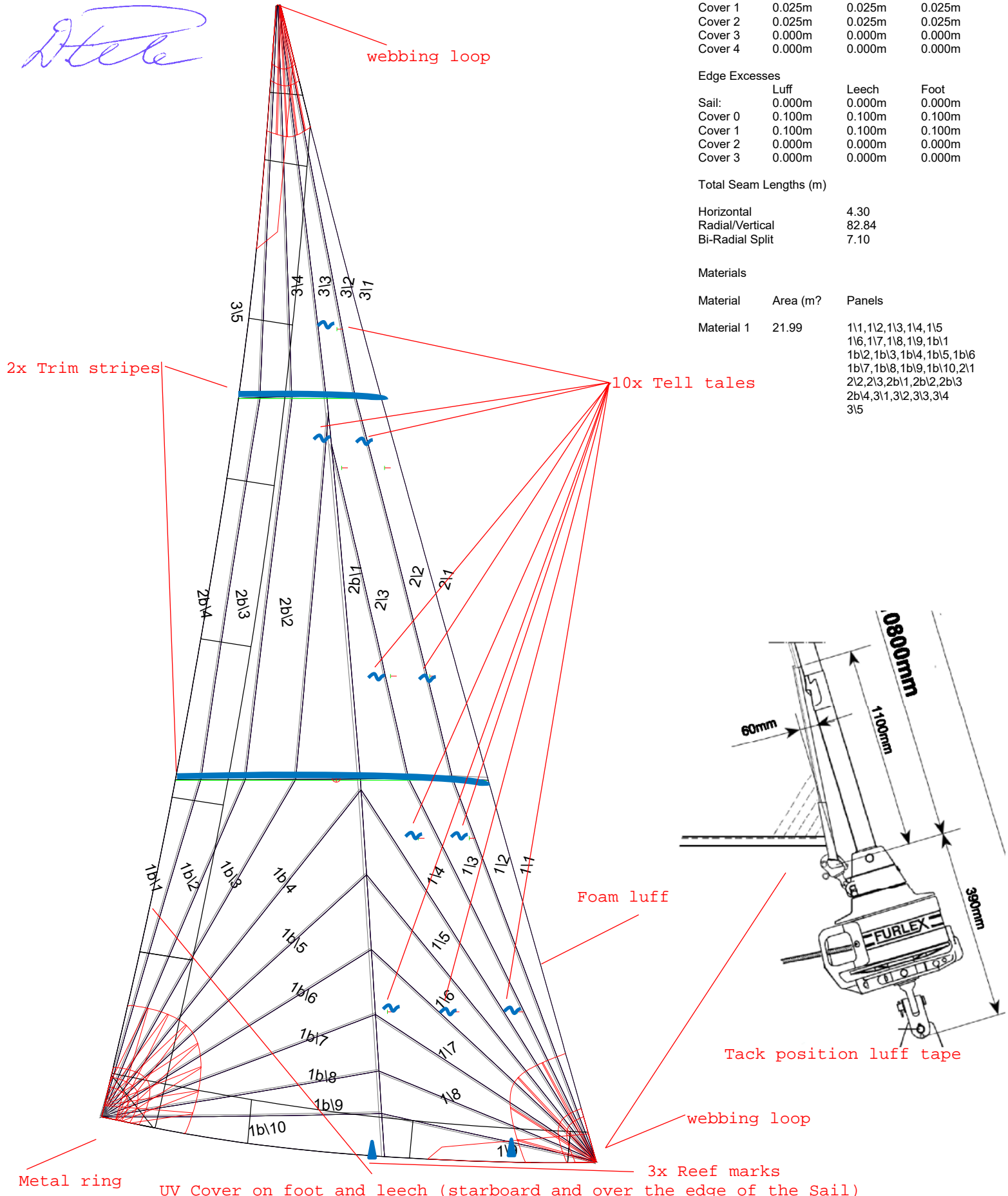
Edge Excesses			
	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.100m	0.100m	0.100m
Cover 1	0.100m	0.100m	0.100m
Cover 2	0.000m	0.000m	0.000m
Cover 3	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	4.30
Radial/Vertical	82.84
Bi-Radial Split	7.10

Materials

Material	Area (m ²)	Panels
Material 1	21.99	11,12,13,14,15 16,17,18,19,1b1 1b2,1b3,1b4,1b5,1b6 1b7,1b8,1b9,1b10,21 22,23,2b1,2b2,2b3 2b4,31,32,33,34 35



Metal ring

UV Cover on foot and leech (starboard and over the edge of the Sail)