

Genoa: 8000926 Tobias Baltic 42 Furljib.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000926 Tobias h

Initial Design Date: 20/9/2024
Boat:
Baltic 42
Client:

Comments:

Design Data
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Genoa

Measurements

Luff geodesic: 16.236m
Leech geodesic: 14.656m
Foot geodesic: 5.810m
Headboard width: 0.045m
Luff perpendicular (HLP): 5.250m
Upper width (HUW): 0.573m
Three-quarter width (HTW): 1.129m
Half width (HHW): 2.366m
Quarter width (HQW): 3.757m
Foot median: 15.312m
ORC Headsail area: 40.405m?
IRC Headsail area: 40.311m?
Surface area: 40.460m?
Forestay height: 17.000m
J: 5.250m

Draft Stripes

1, Luff: 4.072m ; Leech: 2.970m ;
2, Luff: 8.144m ; Leech: 6.864m ;
3, Luff: 12.204m ; Leech: 10.728m ;

Luff Curve

16.234m, 0.000m
14.885m, 0.041m
13.393m, 0.074m
12.080m, 0.091m
10.553m, 0.097m
8.079m, 0.085m
5.276m, 0.058m
2.744m, 0.029m
0.000m, 0.000m

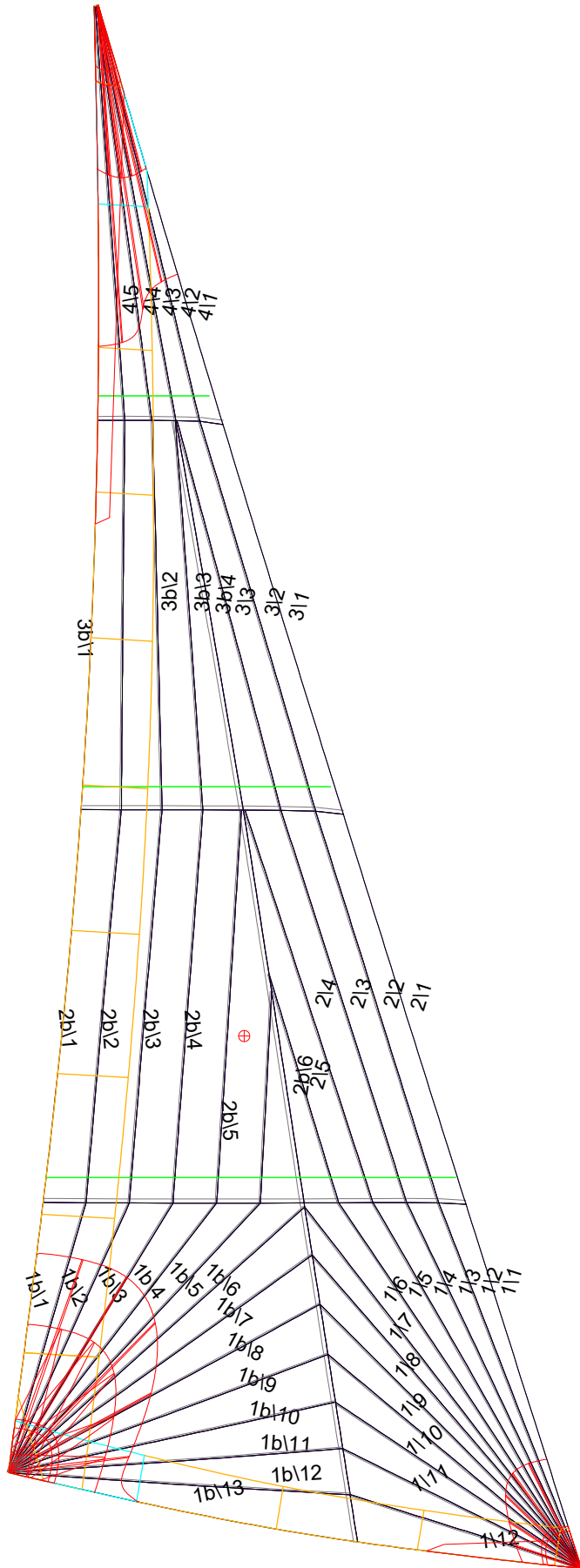
Fanned Luff (@ 5.00% [0.284m])

100% (16.235m) : 0.000m
90% (14.611m) : -0.043m
80% (12.988m) : -0.075m
70% (11.365m) : -0.092m
60% (9.741m) : -0.095m
50% (8.118m) : -0.088m
40% (6.494m) : -0.075m
30% (4.870m) : -0.058m
20% (3.247m) : -0.040m
10% (1.623m) : -0.021m
0% (0.000m) : 0.000m

Before BSeam

-0.000m
-0.006m
-0.006m
0.002m
0.013m
0.024m
0.032m
0.035m
0.032m
0.019m
0.000m

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.040m	0.015m	0.040m
Zone: 1/b	0.040m	0.015m	0.040m
Zone: 2/a	0.040m	0.015m	0.040m
Zone: 2/b	0.040m	0.015m	0.040m
Zone: 3/a	0.040m	0.015m	0.040m
Zone: 3/b	0.040m	0.015m	0.040m
Zone: 4	0.040m	0.015m	0.040m
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	0.070m	0.100m	0.070m
Cover 1	0.070m	0.070m	0.100m
Cover 2	0.000m	0.070m	0.070m
Cover 3	0.000m	0.070m	0.070m

Total Seam Lengths (m)

Horizontal	8.41
Radial/Vertical	150.98
Bi-Radial Split	11.67

Materials

Material	Area (m ²)	Panels
Material 1	40.54	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,1b\8 1b\9,1b\10,1b\11,1b\12,1b\13 2\1,2\2,2\3,2\4,2\5 2b\6,2b\5,2b\4,2b\3,2b\2 2b\1,3\1,3\2,3\3,3b\4 3b\3,3b\2,3b\1,4\1,4\2 4\3,4\4,4\5