

# Genoa: 8001034-1 Sondre Grinde27 HeadsailV3.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8001034 Sondre G

Initial Design Date: 20/11/2024  
Boat:  
Grinde 27  
Client:

Comments:

Design Data  
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## Genoa

### Measurements

Luff geodesic:	10.791m
Leech geodesic:	9.985m
Foot geodesic:	4.764m
Headboard width:	0.035m
Luff perpendicular (HLP):	4.440m
Upper width (HUW):	0.520m
Three-quarter width (HTW):	1.026m
Half width (HHW):	2.116m
Quarter width (HQW):	3.262m
Foot median:	10.302m
ORC Headsail area:	23.369m?
IRC Headsail area:	23.319m?
Surface area:	23.682m?
Forestay height:	11.250m
J:	3.700m

### Draft Stripes

1, Luff: 3.578m ; Leech: 3.046m ;  
2, Luff: 7.150m ; Leech: 6.452m ;

### Luff Curve

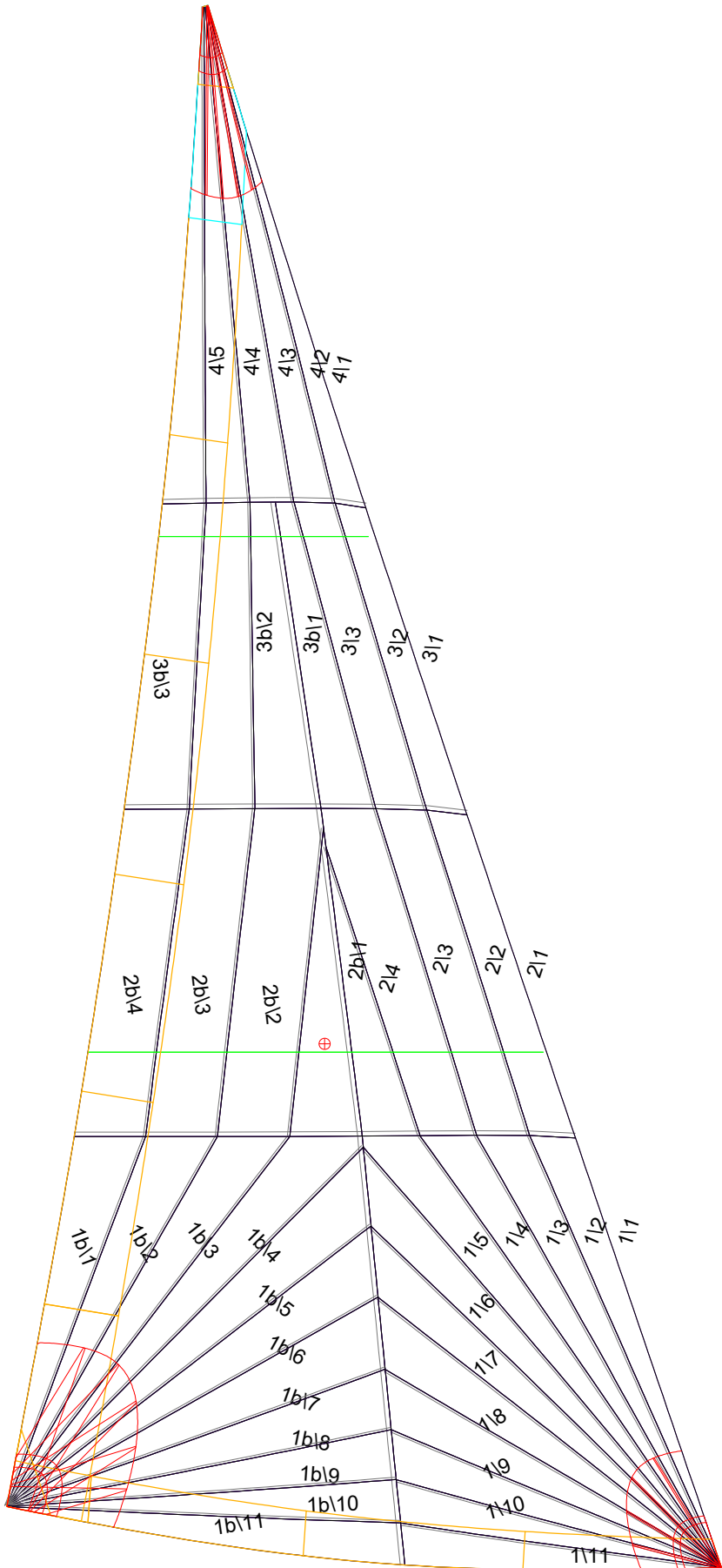
10.789m,	0.000m
9.892m,	0.037m
8.901m,	0.066m
8.028m,	0.081m
7.013m,	0.087m
5.369m,	0.077m
3.506m,	0.052m
1.824m,	0.026m
0.000m,	0.000m

### Fanned Luff (@ 5.00% [0.235m])

100% (10.789m) :	-0.000m	0.000m
90% (9.710m) :	-0.039m	0.000m
80% (8.633m) :	-0.069m	0.005m
70% (7.553m) :	-0.084m	0.016m
60% (6.474m) :	-0.087m	0.029m
50% (5.395m) :	-0.081m	0.040m
40% (4.316m) :	-0.069m	0.047m
30% (3.237m) :	-0.053m	0.046m
20% (2.158m) :	-0.037m	0.040m
10% (1.078m) :	-0.019m	0.025m
0% (0.000m) :	0.000m	0.000m

### Before BSeam

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## Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.030m	0.015m	0.030m
Zone: 1/b	0.030m	0.015m	0.030m
Zone: 2/a	0.030m	0.015m	0.030m
Zone: 2/b	0.030m	0.015m	0.030m
Zone: 3/a	0.030m	0.015m	0.030m
Zone: 3/b	0.030m	0.015m	0.030m
Zone: 4	0.030m	0.015m	0.030m
Cover 1	0.025m	0.025m	0.025m
Cover 2	0.000m	0.000m	0.000m
Cover 3	0.000m	0.000m	0.000m
Cover 4	0.025m	0.025m	0.025m

## Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.070m	0.100m	0.070m
Cover 1	0.000m	0.070m	0.070m
Cover 2	0.000m	0.070m	0.070m
Cover 3	0.070m	0.070m	0.100m

## Total Seam Lengths (m)

Horizontal	7.26
Radial/Vertical	92.22
Bi-Radial Split	7.35

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	23.73	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1b\1,1b\2,1b\3,1b\4 1b\5,1b\6,1b\7,1b\8,1b\9 1b\10,1b\11,2\1,2\2,2\3 2\4,2b\1,2b\2,2b\3,2b\4 3\1,3\2,3\3,3b\1,3b\2 3b\3,4\1,4\2,4\3,4\4 4\5

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