

Genoa: 8001034-1 Sondre Grinde27 HeadsailV2.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: 15/11/2024
Boat:
Grinde 27
Client:

Comments:

Design Data
=====

Genoa

Measurements

| | |
|----------------------------|----------|
| Luff geodesic: | 10.791m |
| Leech geodesic: | 9.991m |
| Foot geodesic: | 4.777m |
| Headboard width: | 0.035m |
| Luff perpendicular (HLP): | 4.440m |
| Upper width (HUW): | 0.495m |
| Three-quarter width (HTW): | 0.982m |
| Half width (HHW): | 2.059m |
| Quarter width (HQW): | 3.217m |
| Foot median: | 10.250m |
| ORC Headsail area: | 23.009m? |
| IRC Headsail area: | 22.963m? |
| Surface area: | 23.126m? |
| Forestay height: | 11.250m |
| J: | 3.700m |

Draft Stripes

- 1, Luff: 3.578m ; Leech: 3.055m ;
- 2, Luff: 7.150m ; Leech: 6.461m ;

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 |

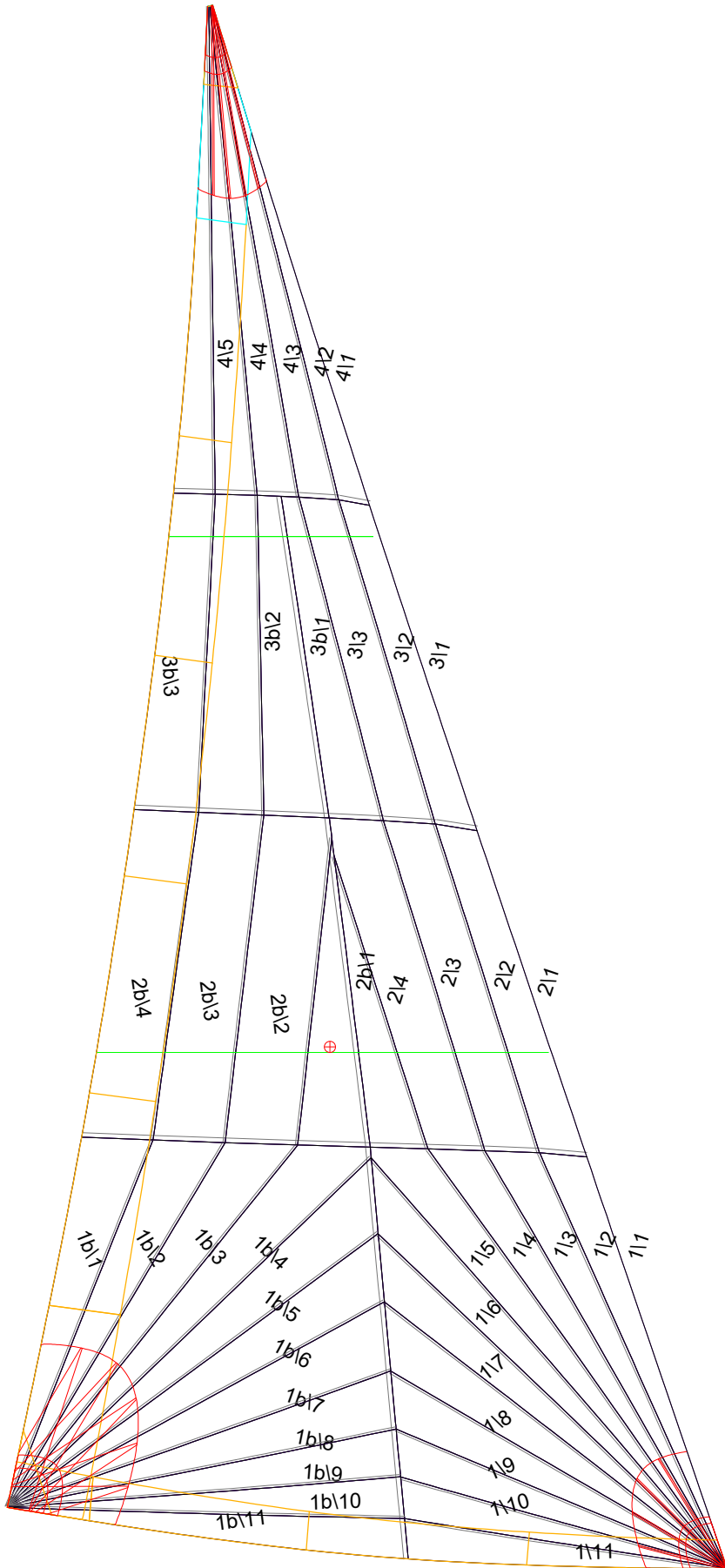
Fanned Luff (@ 5.00% [0.236m])

| | | |
|------------------|---------|---------|
| 100% (10.789m) : | -0.000m | 0.000m |
| 90% (9.710m) : | -0.039m | -0.007m |
| 80% (8.633m) : | -0.067m | -0.007m |
| 70% (7.553m) : | -0.082m | -0.000m |
| 60% (6.474m) : | -0.085m | 0.011m |
| 50% (5.395m) : | -0.078m | 0.021m |
| 40% (4.316m) : | -0.066m | 0.028m |
| 30% (3.237m) : | -0.052m | 0.030m |
| 20% (2.158m) : | -0.036m | 0.027m |
| 10% (1.078m) : | -0.019m | 0.018m |
| 0% (0.000m) : | 0.000m | 0.000m |

Before BSeam

| |
|---------|
| 0.000m |
| -0.007m |
| -0.007m |
| -0.000m |
| 0.011m |
| 0.021m |
| 0.028m |
| 0.030m |
| 0.027m |
| 0.018m |
| 0.000m |

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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 | 7.16 |
| Radial/Vertical | 92.04 |
| Bi-Radial Split | 7.34 |

Materials

| Material | Area (m ²) | Panels |
|------------|------------------------|---|
| Material 1 | 23.17 | 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 |