

Genoa: 8000613 Pepijn-2 Moody 425 furlgen.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000613 Pepijn M

Initial Design Date: 22/7/2024
Boat:
Moody 425
Client:

Comments:

Design Data
=====

Genoa

Measurements

| | |
|----------------------------|----------|
| Luff geodesic: | 14.652m |
| Leech geodesic: | 13.599m |
| Foot geodesic: | 5.932m |
| Headboard width: | 0.045m |
| Luff perpendicular (HLP): | 5.533m |
| Upper width (HUW): | 0.621m |
| Three-quarter width (HTW): | 1.226m |
| Half width (HHW): | 2.547m |
| Quarter width (HQW): | 4.000m |
| Foot median: | 13.950m |
| ORC Headsail area: | 38.855m? |
| IRC Headsail area: | 38.768m? |
| Surface area: | 38.892m? |
| Forestay height: | 15.750m |
| J: | 5.030m |

Draft Stripes

1, Luff: 4.852m ; Leech: 4.190m ;
2, Luff: 9.698m ; Leech: 8.811m ;

Luff Curve

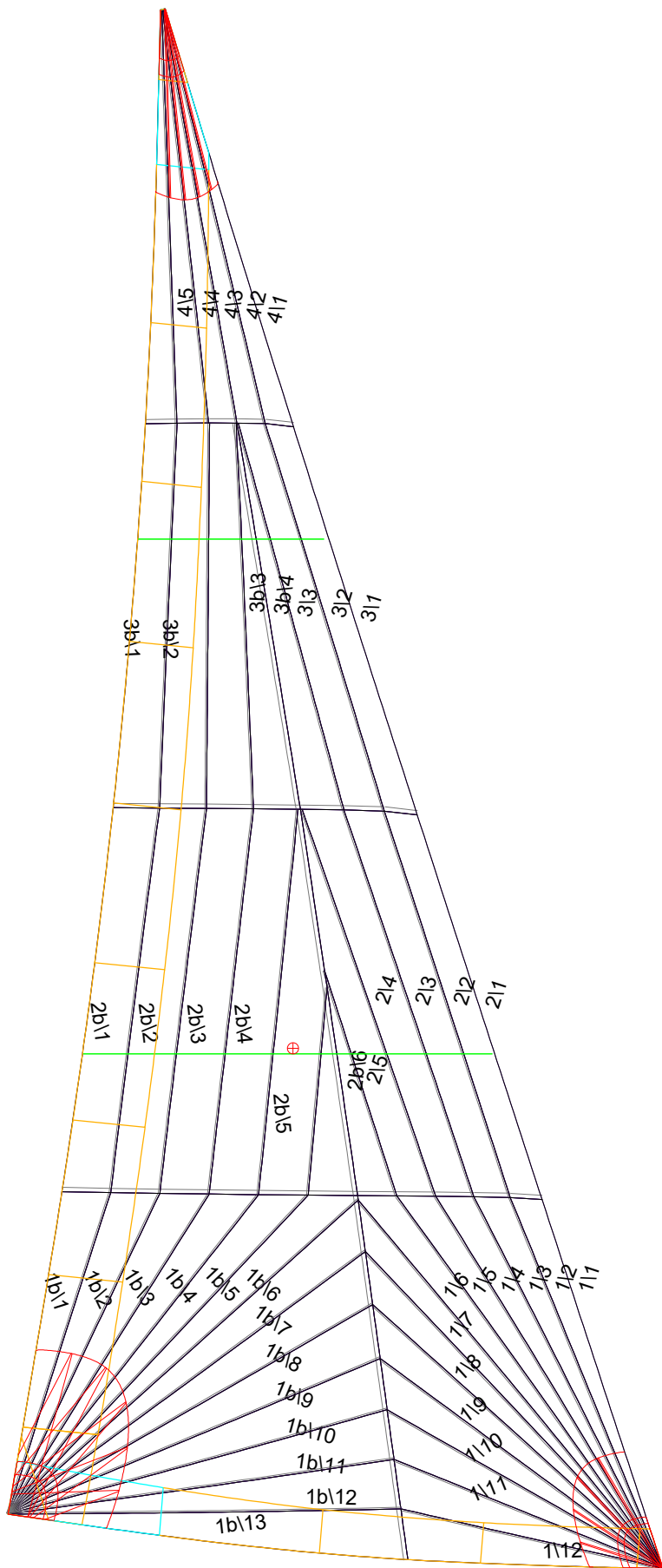
| | |
|----------|--------|
| 14.650m, | 0.000m |
| 13.433m, | 0.037m |
| 12.087m, | 0.067m |
| 10.901m, | 0.082m |
| 9.523m, | 0.088m |
| 7.291m, | 0.077m |
| 4.761m, | 0.052m |
| 2.476m, | 0.026m |
| 0.000m, | 0.000m |

Fanned Luff (@ 5.00% [0.293m])

| | | |
|------------------|---------|---------|
| 100% (14.651m) : | -0.000m | 0.000m |
| 90% (13.185m) : | -0.037m | -0.002m |
| 80% (11.722m) : | -0.065m | 0.001m |
| 70% (10.256m) : | -0.080m | 0.009m |
| 60% (8.791m) : | -0.083m | 0.021m |
| 50% (7.326m) : | -0.077m | 0.032m |
| 40% (5.860m) : | -0.066m | 0.039m |
| 30% (4.395m) : | -0.052m | 0.039m |
| 20% (2.931m) : | -0.036m | 0.034m |
| 10% (1.464m) : | -0.019m | 0.022m |
| 0% (0.000m) : | 0.000m | 0.000m |

Before BSeam

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Seam Allowances

| | Split | Radial | Cross |
|-----------|--------|--------|--------|
| Zone: 1/a | 0.038m | 0.015m | 0.038m |
| Zone: 1/b | 0.038m | 0.015m | 0.038m |
| Zone: 2/a | 0.038m | 0.015m | 0.038m |
| Zone: 2/b | 0.038m | 0.015m | 0.038m |
| Zone: 3/a | 0.038m | 0.015m | 0.038m |
| Zone: 3/b | 0.038m | 0.015m | 0.038m |
| Zone: 4 | 0.038m | 0.015m | 0.038m |
| 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 | 8.69 |
| Radial/Vertical | 144.29 |
| Bi-Radial Split | 10.65 |

Materials

| Material | Area (m²) | Panels |
|------------|-----------|--|
| Material 1 | 38.97 | 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 |