

Genoa: 7001212 AI -2 Mercedes Clipper Headsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\7001212 AI\70012

Initial Design Date: 9/1/2024
Boat:

Comments:

Client:

Design Data
=====

Genoa

Measurements

| | |
|----------------------------|----------|
| Luff geodesic: | 12.226m |
| Leech geodesic: | 11.534m |
| Foot geodesic: | 5.417m |
| Headboard width: | 0.045m |
| Luff perpendicular (HLP): | 5.109m |
| Upper width (HUW): | 0.582m |
| Three-quarter width (HTW): | 1.146m |
| Half width (HHW): | 2.372m |
| Quarter width (HQW): | 3.709m |
| Foot median: | 11.739m |
| ORC Headsail area: | 30.079m? |
| IRC Headsail area: | 30.005m? |
| Surface area: | 30.291m? |
| Forestay height: | 12.700m |
| J: | 3.930m |

Draft Stripes

1, Luff: 3.070m ; Leech: 2.653m ;
2, Luff: 6.139m ; Leech: 5.619m ;
3, Luff: 9.196m ; Leech: 8.545m ;

Luff Curve

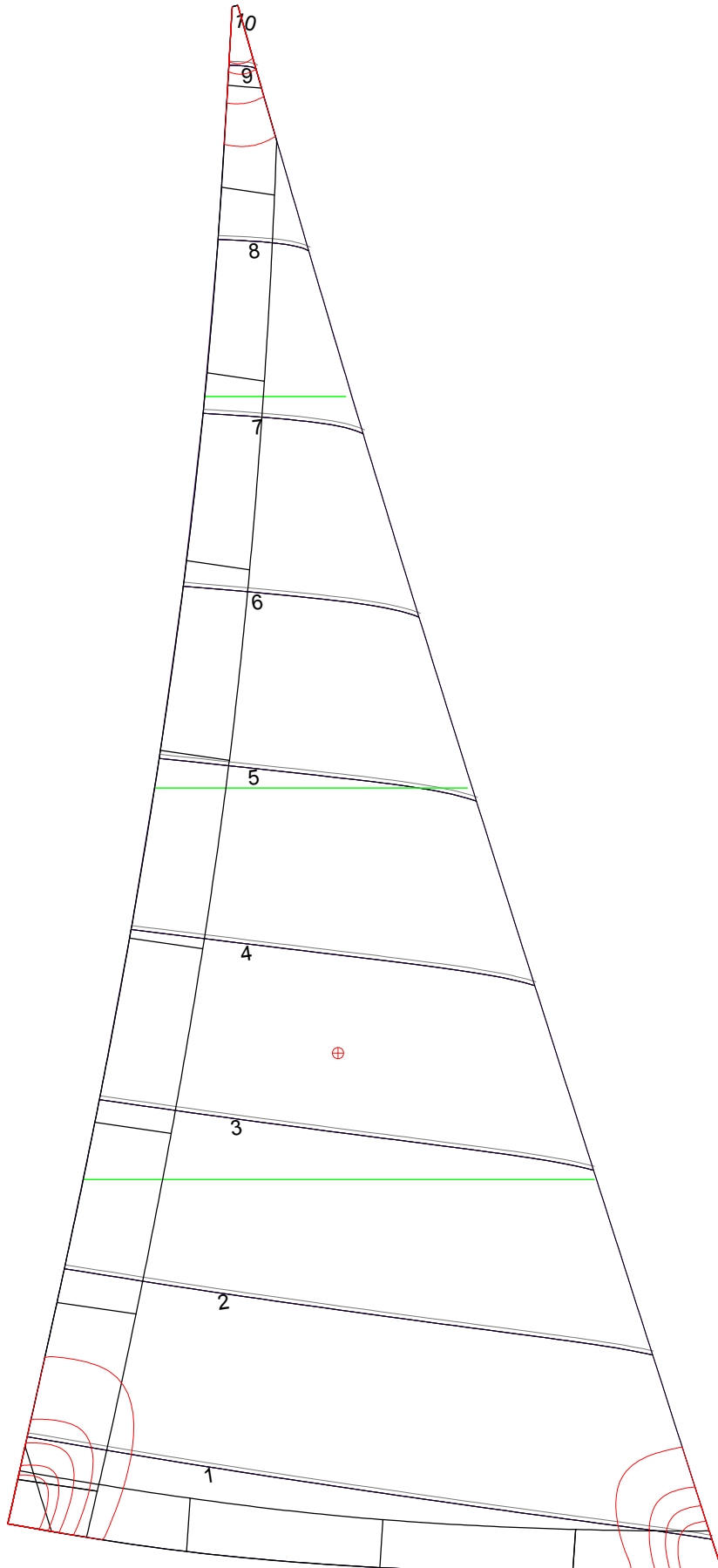
| | |
|----------|--------|
| 12.224m, | 0.000m |
| 11.208m, | 0.041m |
| 10.084m, | 0.075m |
| 9.096m, | 0.092m |
| 7.946m, | 0.099m |
| 6.083m, | 0.087m |
| 3.973m, | 0.059m |
| 2.066m, | 0.029m |
| 0.000m, | 0.000m |

Fanned Luff (@ 5.00% [0.266m])

| | | |
|------------------|---------|---------|
| 100% (12.224m) : | 0.000m | -0.000m |
| 90% (11.001m) : | -0.046m | -0.000m |
| 80% (9.781m) : | -0.080m | 0.005m |
| 70% (8.557m) : | -0.097m | 0.013m |
| 60% (7.335m) : | -0.099m | 0.022m |
| 50% (6.112m) : | -0.091m | 0.031m |
| 40% (4.890m) : | -0.076m | 0.037m |
| 30% (3.667m) : | -0.058m | 0.037m |
| 20% (2.445m) : | -0.039m | 0.031m |
| 10% (1.221m) : | -0.020m | 0.019m |
| 0% (0.000m) : | 0.000m | 0.000m |

Before BSeam

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Seam Allowances

| Zone: | Split | Radial | Cross |
|---------|--------|--------|--------|
| Zone: 1 | 0.030m | 0.030m | 0.030m |
| 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

| Sail: | 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 | 23.66 |
| Radial/Vertical | 0.00 |
| Bi-Radial Split | 0.00 |

Materials

| Material | Area (m ²) | Panels |
|------------|------------------------|-------------------------|
| Material 1 | 30.34 | 1,2,3,4,5 6,7,8,9,10 |