

Genoa: 8001029 Antoine-2 Beneteau First310 hanksjibV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8001029 Antoine E

Initial Design Date: 8/11/2024
Boat:
Beneteau First 310
Client:

Comments:

Design Data
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Genoa

Measurements

| | |
|----------------------------|----------|
| Luff geodesic: | 8.400m |
| Leech geodesic: | 8.146m |
| Foot geodesic: | 4.696m |
| Headboard width: | 0.050m |
| Luff perpendicular (HLP): | 4.455m |
| Upper width (HUW): | 0.535m |
| Three-quarter width (HTW): | 1.046m |
| Half width (HHW): | 2.128m |
| Quarter width (HQW): | 3.279m |
| Foot median: | 8.068m |
| ORC Headsail area: | 18.316m? |
| IRC Headsail area: | 18.270m? |
| Surface area: | 18.534m? |
| Forestay height: | 11.290m |
| J: | 3.300m |

Draft Stripes

1, Luff: 2.784m ; Leech: 2.521m ;
2, Luff: 5.563m ; Leech: 5.287m ;

Luff Slides

1, Position: 0.500m
2, Position: 1.260m
3, Position: 2.020m
4, Position: 2.780m
5, Position: 3.540m
6, Position: 4.300m
7, Position: 5.060m
8, Position: 5.820m
9, Position: 6.580m
10, Position: 7.340m
11, Position: 8.100m

Luff Curve

| | |
|---------|--------|
| 8.398m, | 0.000m |
| 7.700m, | 0.028m |
| 6.929m, | 0.052m |
| 6.249m, | 0.063m |
| 5.459m, | 0.068m |
| 4.179m, | 0.060m |
| 2.729m, | 0.040m |
| 1.420m, | 0.020m |
| 0.000m, | 0.000m |

Fanned Luff (@ 5.00% [0.232m])

| | | |
|-----------------|---------|--------|
| 100% (8.399m) : | 0.000m | 0.000m |
| 90% (7.559m) : | -0.028m | 0.001m |
| 80% (6.720m) : | -0.051m | 0.004m |
| 70% (5.879m) : | -0.062m | 0.011m |
| 60% (5.040m) : | -0.065m | 0.020m |
| 50% (4.200m) : | -0.061m | 0.028m |
| 40% (3.360m) : | -0.053m | 0.032m |
| 30% (2.520m) : | -0.042m | 0.031m |
| 20% (1.680m) : | -0.030m | 0.026m |
| 10% (0.839m) : | -0.016m | 0.015m |
| 0% (0.000m) : | 0.000m | 0.000m |

Before BSeam

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Seam Allowances

| | Split | Radial | Cross |
|-----------|--------|--------|--------|
| Zone: 1/a | 0.025m | 0.015m | 0.025m |
| Zone: 1/b | 0.025m | 0.015m | 0.025m |
| Zone: 2/a | 0.025m | 0.015m | 0.025m |
| Zone: 2/b | 0.025m | 0.015m | 0.025m |
| Zone: 3 | 0.025m | 0.015m | 0.025m |

Edge Excesses

| Sail: | Luff | Leech | Foot |
|-------|--------|--------|--------|
| | 0.000m | 0.000m | 0.000m |

Total Seam Lengths (m)

| | |
|-----------------|-------|
| Horizontal | 4.91 |
| Radial/Vertical | 52.07 |
| Bi-Radial Split | 5.28 |

Materials

| Material | Area (m ²) | Panels |
|------------|------------------------|------------------------------------------------------------------------------------------------------------------------|
| Material 1 | 18.52 | 1\1,1\2,1\3,1\4,1\5 1\6,1\7,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,1b\8 2\1,2\2,2b\3,2b\2,2b\1 3\1,3\2,3\3,3\4 |

