

Genoa: 7001132 Mark-2 Lagoon 42 HeadsailV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\7001132 Mark\700

Initial Design Date: 9/1/2024
Boat:

Comments:

Client:

Design Data
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Genoa

Measurements

Luff geodesic: 16.332m
Leech geodesic: 14.336m
Foot geodesic: 5.261m
Headboard width: 0.055m
Luff perpendicular (HLP): 4.524m
Upper width (HUW): 0.503m
Three-quarter width (HTW): 0.978m
Half width (HHW): 2.043m
Quarter width (HQW): 3.243m
Foot median: 15.298m
ORC Headsail area: 35.110m?
IRC Headsail area: 35.008m?
Surface area: 35.578m?
Forestay height: 17.170m
J: 3.480m

Draft Stripes

1, Luff: 4.098m ; Leech: 2.406m ;
2, Luff: 8.195m ; Leech: 6.386m ;
3, Luff: 12.278m ; Leech: 10.338m ;

Luff Curve

16.329m, 0.000m
14.972m, 0.056m
13.471m, 0.102m
12.150m, 0.125m
10.614m, 0.134m
8.126m, 0.117m
5.307m, 0.080m
2.760m, 0.040m
0.000m, 0.000m

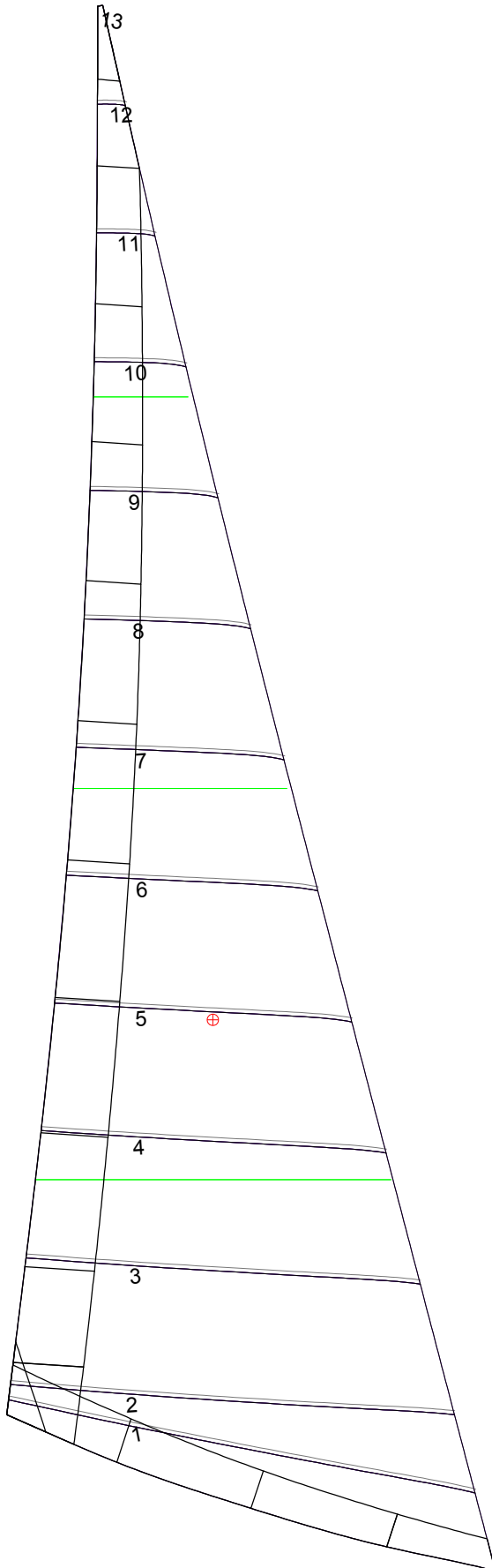
Fanned Luff (@ 5.00% [0.247m])

100% (16.329m) : -0.000m
90% (14.698m) : -0.067m
80% (13.064m) : -0.115m
70% (11.432m) : -0.138m
60% (9.798m) : -0.140m
50% (8.165m) : -0.128m
40% (6.532m) : -0.106m
30% (4.899m) : -0.081m
20% (3.266m) : -0.054m
10% (1.632m) : -0.028m
0% (0.000m) : 0.000m

Before BSeam

-0.000m
-0.022m
-0.032m
-0.029m
-0.016m
-0.000m
0.014m
0.020m
0.021m
0.016m
0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1	0.040m	0.040m	0.040m
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
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	30.67
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	35.54	1,2,3,4,5 6,7,8,9,10 11,12,13