

# Genoa: 7001132 Mark-2 Lagoon 42 Headsail.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:	16.563m
Leech geodesic:	14.555m
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):	2.044m
Quarter width (HQW):	3.243m
Foot median:	15.525m
ORC Headsail area:	35.608m?
IRC Headsail area:	35.504m?
Surface area:	36.076m?
Forestay height:	17.170m
J:	3.480m

### Draft Stripes

- 1, Luff: 4.156m ; Leech: 2.461m ;
- 2, Luff: 8.310m ; Leech: 6.495m ;
- 3, Luff: 12.451m ; Leech: 10.502m ;

### Luff Curve

16.559m,	0.000m
15.183m,	0.056m
13.662m,	0.102m
12.322m,	0.125m
10.764m,	0.134m
8.241m,	0.117m
5.382m,	0.080m
2.799m,	0.040m
0.000m,	0.000m

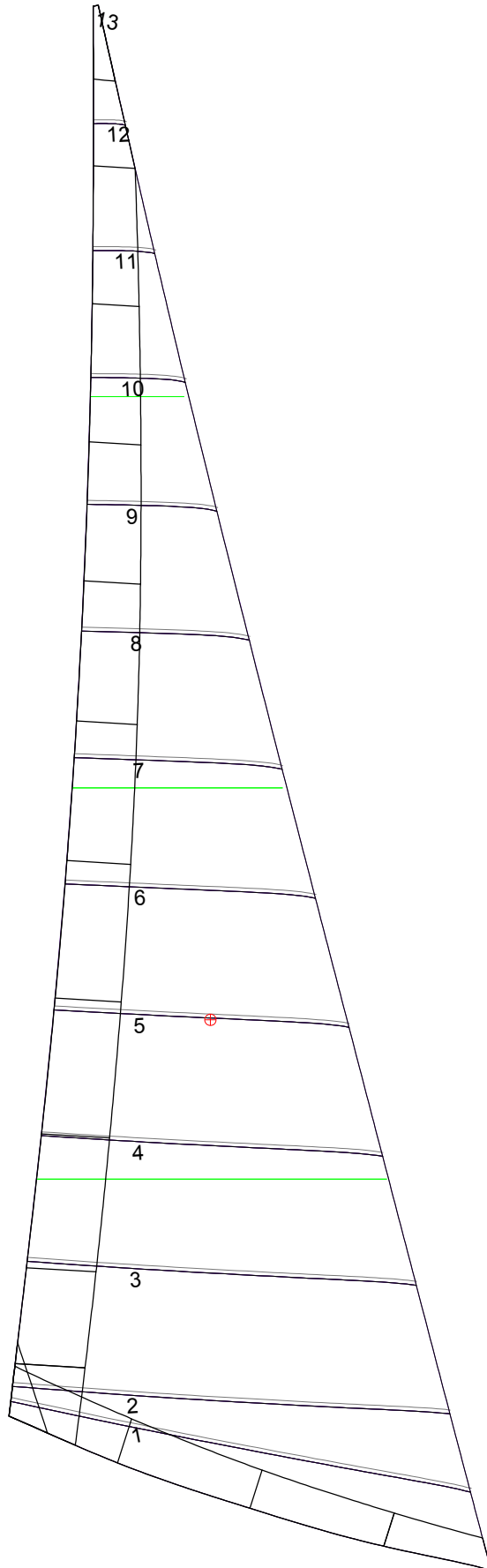
### Fanned Luff (@ 5.00% [0.247m])

100% (16.560m) :	-0.000m
90% (14.906m) :	-0.067m
80% (13.249m) :	-0.115m
70% (11.593m) :	-0.138m
60% (9.937m) :	-0.140m
50% (8.281m) :	-0.127m
40% (6.624m) :	-0.105m
30% (4.968m) :	-0.080m
20% (3.312m) :	-0.053m
10% (1.655m) :	-0.027m
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	30.97
Radial/Vertical	0.00
Bi-Radial Split	0.00

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	36.03	1,2,3,4,5 6,7,8,9,10 11,12,13