

# Genoa: 8000615 Caroline-2 Hitchiker 48 Headsail 105%V2.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000615 Caroline

Initial Design Date: 16/7/2024  
Boat:  
Hitchiker 48  
Client:

Comments:

Design Data  
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## Genoa

### Measurements

Luff geodesic: 15.127m  
Leech geodesic: 12.548m  
Foot geodesic: 6.910m  
Headboard width: 0.055m  
Luff perpendicular (HLP): 5.717m  
Upper width (HUW): 0.651m  
Three-quarter width (HTW): 1.277m  
Half width (HHW): 2.640m  
Quarter width (HQW): 4.138m  
Foot median: 13.614m  
ORC Headsail area: 41.547m?  
IRC Headsail area: 41.452m?  
Surface area: 41.971m?  
Forestay height: 15.500m  
J: 5.445m

### Draft Stripes

1, Luff: 3.801m ; Leech: 1.717m ;  
2, Luff: 7.600m ; Leech: 5.342m ;  
3, Luff: 11.383m ; Leech: 8.912m ;

### Luff Curve

15.123m, 0.000m  
13.867m, 0.051m  
12.477m, 0.093m  
11.253m, 0.114m  
9.831m, 0.122m  
7.526m, 0.107m  
4.915m, 0.073m  
2.556m, 0.036m  
0.000m, 0.000m

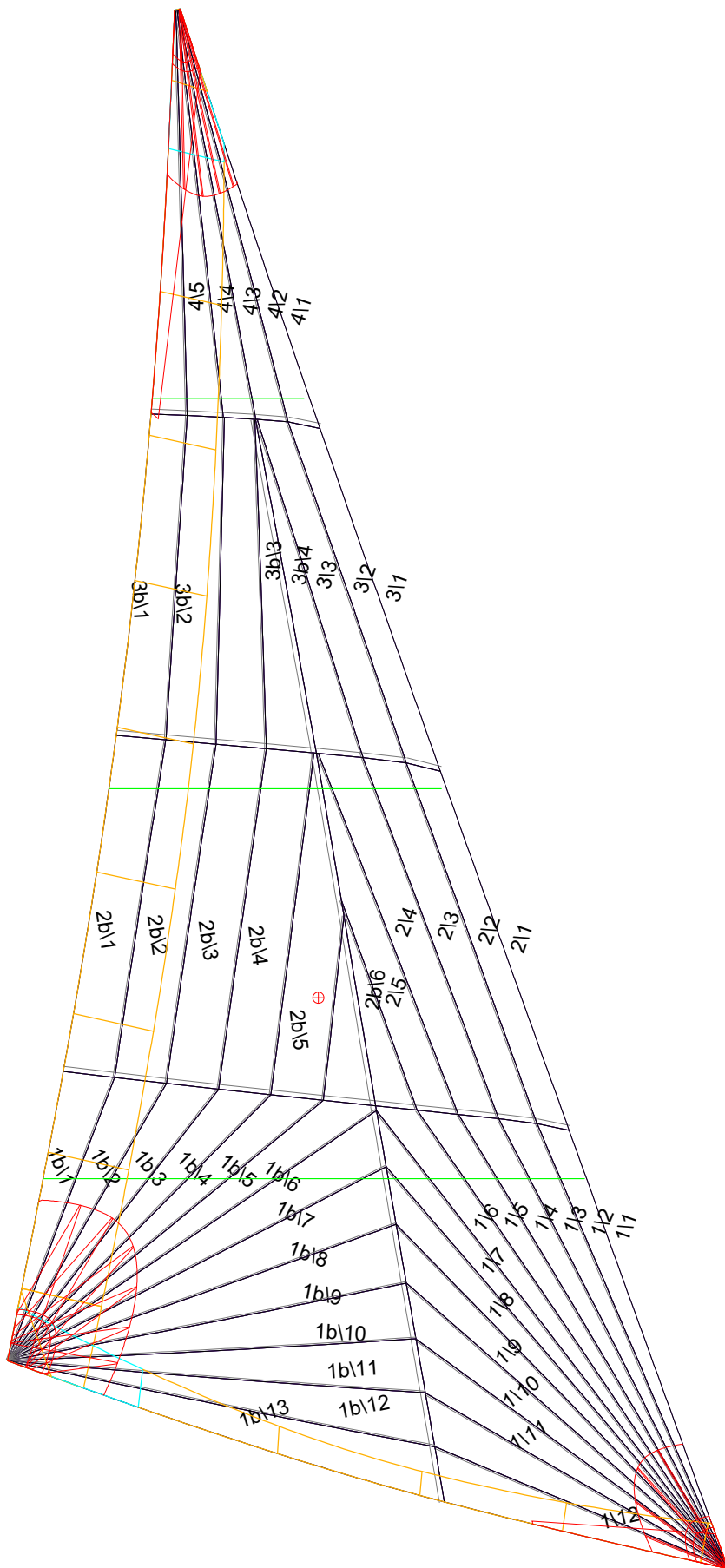
### Fanned Luff (@ 5.00% [0.330m])

100% (15.124m) : -0.000m  
90% (13.613m) : -0.059m  
80% (12.100m) : -0.102m  
70% (10.588m) : -0.125m  
60% (9.075m) : -0.128m  
50% (7.563m) : -0.119m  
40% (6.050m) : -0.100m  
30% (4.537m) : -0.078m  
20% (3.025m) : -0.053m  
10% (1.511m) : -0.028m  
0% (0.000m) : 0.000m

### Before BSeam

0.000m  
-0.014m  
-0.018m  
-0.009m  
0.005m  
0.021m  
0.032m  
0.035m  
0.033m  
0.022m  
0.000m

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## Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.045m	0.015m	0.045m
Zone: 1/b	0.045m	0.015m	0.045m
Zone: 2/a	0.045m	0.015m	0.045m
Zone: 2/b	0.045m	0.015m	0.045m
Zone: 3/a	0.045m	0.015m	0.045m
Zone: 3/b	0.045m	0.015m	0.045m
Zone: 4	0.045m	0.015m	0.045m
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	9.59
Radial/Vertical	149.69
Bi-Radial Split	10.46

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	42.06	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