

Genoa: 8000615 Caroline-2 Hitchiker 48 Headsail.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: 28/6/2024
Boat:
Hitchiker 48
Client:

Comments:

Design Data
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Genoa

Measurements

Luff geodesic: 15.127m
Leech geodesic: 13.010m
Foot geodesic: 7.239m
Headboard width: 0.055m
Luff perpendicular (HLP): 6.262m
Upper width (HUW): 0.719m
Three-quarter width (HTW): 1.414m
Half width (HHW): 2.918m
Quarter width (HQW): 4.552m
Foot median: 13.795m
ORC Headsail area: 45.703m?
IRC Headsail area: 45.600m?
Surface area: 46.049m?
Forestay height: 15.500m
J: 5.445m

Draft Stripes

1, Luff: 3.801m ; Leech: 2.140m ;
2, Luff: 7.601m ; Leech: 5.780m ;
3, Luff: 11.383m ; Leech: 9.361m ;

Luff Curve

15.124m, 0.000m
13.867m, 0.051m
12.477m, 0.093m
11.254m, 0.114m
9.831m, 0.122m
7.526m, 0.107m
4.915m, 0.073m
2.556m, 0.036m
0.000m, 0.000m

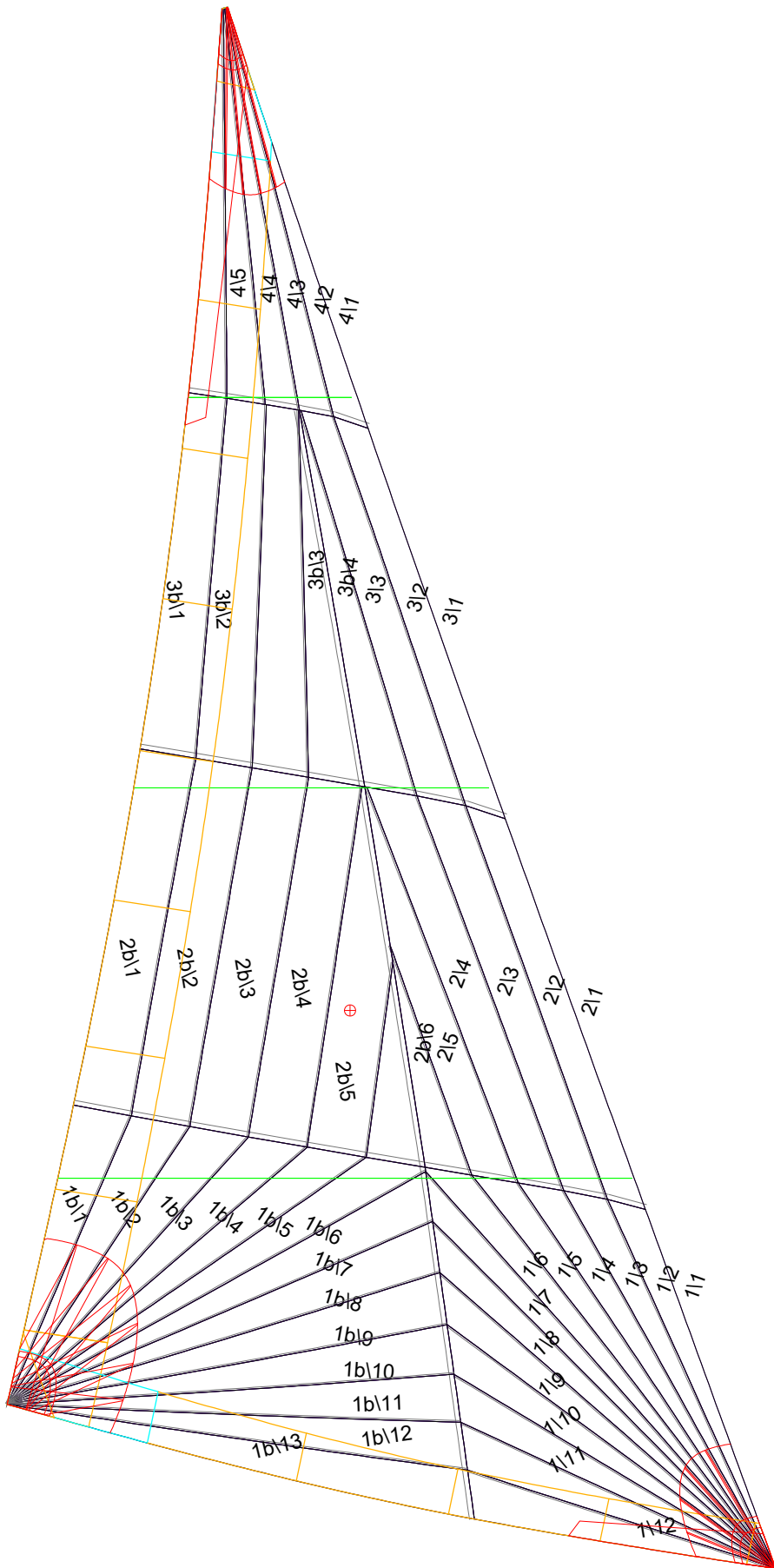
Fanned Luff (@ 5.00% [0.351m])

100% (15.124m) : 0.000m
90% (13.612m) : -0.057m
80% (12.101m) : -0.099m
70% (10.588m) : -0.121m
60% (9.075m) : -0.125m
50% (7.563m) : -0.115m
40% (6.050m) : -0.097m
30% (4.537m) : -0.076m
20% (3.026m) : -0.052m
10% (1.511m) : -0.027m
0% (0.000m) : 0.000m

Before BSeam

0.000m
-0.012m
-0.014m
-0.005m
0.010m
0.024m
0.035m
0.037m
0.034m
0.023m
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	10.77
Radial/Vertical	152.53
Bi-Radial Split	10.65

Materials

Material	Area (m ²)	Panels
Material 1	46.14	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