

Genoa: 8000240 Elie-2 Headsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000240 Elie main

Initial Design Date: 2/3/2024
Boat:

Comments:

Client:

Design Data
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Genoa

Measurements

Luff geodesic: 14.355m
Leech geodesic: 13.430m
Foot geodesic: 4.700m
Headboard width: 0.041m
Luff perpendicular (HLP): 4.414m
Upper width (HUW): 0.488m
Three-quarter width (HTW): 0.960m
Half width (HHW): 2.008m
Quarter width (HQW): 3.174m
Foot median: 13.801m
ORC Headsail area: 30.187m?
IRC Headsail area: 30.109m?
Surface area: 30.172m?
Forestay height: 15.250m
J: 4.300m

Draft Stripes

1, Luff: 3.600m ; Leech: 3.038m ;
2, Luff: 7.199m ; Leech: 6.501m ;
3, Luff: 10.788m ; Leech: 9.947m ;

Luff Curve

14.353m, 0.000m
13.161m, 0.036m
11.842m, 0.065m
10.680m, 0.080m
9.330m, 0.086m
7.143m, 0.076m
4.665m, 0.051m
2.426m, 0.026m
0.000m, 0.000m

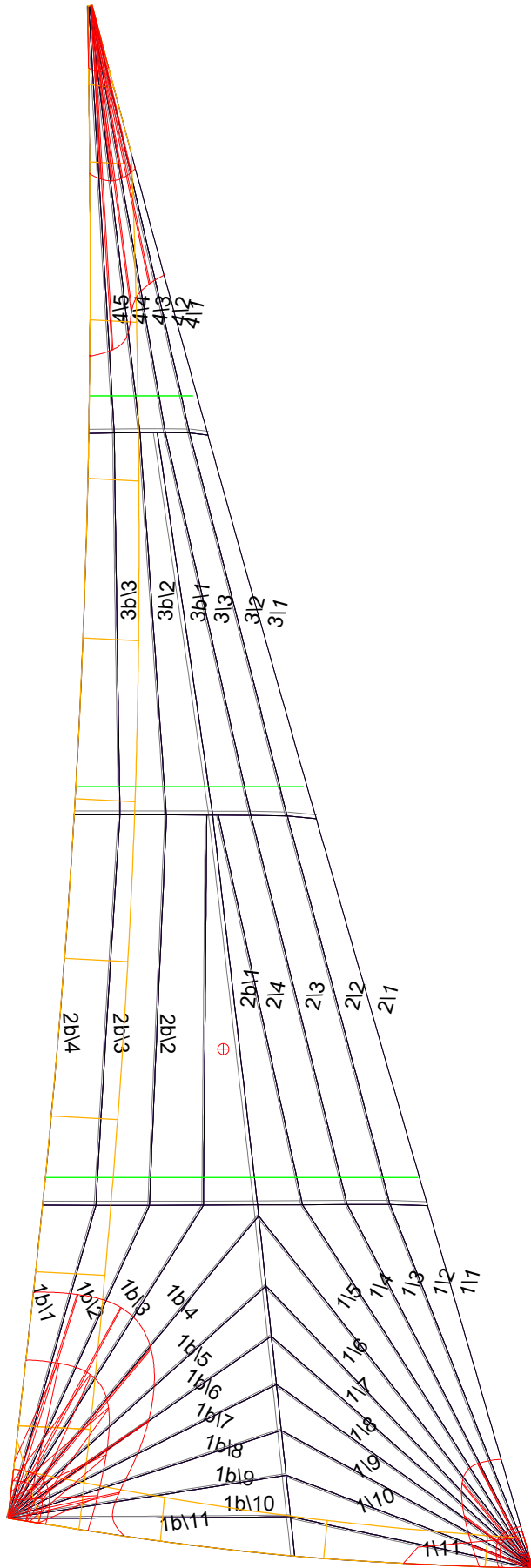
Fanned Luff (@ 5.00% [0.232m])

100% (14.354m) : 0.000m
90% (12.918m) : -0.038m
80% (11.484m) : -0.066m
70% (10.048m) : -0.080m
60% (8.613m) : -0.083m
50% (7.177m) : -0.077m
40% (5.742m) : -0.065m
30% (4.306m) : -0.051m
20% (2.871m) : -0.035m
10% (1.435m) : -0.018m
0% (0.000m) : 0.000m

Before BSeam

0.000m
-0.007m
-0.008m
-0.002m
0.008m
0.019m
0.026m
0.028m
0.026m
0.017m
0.000m

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.035m	0.015m	0.035m
Zone: 1/b	0.035m	0.015m	0.035m
Zone: 2/a	0.035m	0.015m	0.035m
Zone: 2/b	0.035m	0.015m	0.035m
Zone: 3/a	0.035m	0.015m	0.035m
Zone: 3/b	0.035m	0.015m	0.035m
Zone: 4	0.035m	0.015m	0.035m
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	6.88
Radial/Vertical	111.01
Bi-Radial Split	10.27

Materials

Material	Area (m ²)	Panels
Material 1	30.23	1\1, 1\2, 1\3, 1\4, 1\5 1\6, 1\7, 1\8, 1\9, 1\10 1\11, 1b\1, 1b\2, 1b\3, 1b\4 1b\5, 1b\6, 1b\7, 1b\8, 1b\9 1b\10, 1b\11, 2\1, 2\2, 2\3 2\4, 2b\1, 2b\2, 2b\3, 2b\4 3\1, 3\2, 3\3, 3b\1, 3b\2 3b\3, 4\1, 4\2, 4\3, 4\4 4\5