

Genoa: 8000321 Mathieu-2 Lerouge catamaran Headsail.des

Design Info

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Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000321 Mathieu L

Initial Design Date: 27/3/2024
Boat:

Comments:

Client:

Design Data

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Genoa

Measurements

Luff geodesic:	12.870m
Leech geodesic:	12.081m
Foot geodesic:	5.828m
Headboard width:	0.045m
Luff perpendicular (HLP):	5.474m
Upper width (HUW):	0.617m
Three-quarter width (HTW):	1.219m
Half width (HHW):	2.534m
Quarter width (HQW):	3.970m
Foot median:	12.298m
ORC Headsail area:	33.864m?
IRC Headsail area:	33.778m?
Surface area:	34.021m?
Forestay height:	12.090m
J:	4.760m

Draft Stripes

1, Luff: 3.234m ; Leech: 2.893m ;
2, Luff: 6.467m ; Leech: 5.960m ;
3, Luff: 9.685m ; Leech: 8.992m ;

Luff Curve

12.867m,	0.000m
11.798m,	0.044m
10.616m,	0.079m
9.575m,	0.097m
8.364m,	0.104m
6.403m,	0.091m
4.182m,	0.062m
2.175m,	0.031m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.289m])

100% (12.868m) :	-0.000m	0.000m
90% (11.580m) :	-0.046m	-0.007m
80% (10.296m) :	-0.080m	-0.007m
70% (9.008m) :	-0.098m	0.001m
60% (7.721m) :	-0.101m	0.014m
50% (6.434m) :	-0.094m	0.026m
40% (5.147m) :	-0.080m	0.035m
30% (3.860m) :	-0.062m	0.037m
20% (2.574m) :	-0.043m	0.033m
10% (1.285m) :	-0.023m	0.021m
0% (0.000m) :	0.000m	0.000m

Before BSeam

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.035m	0.016m	0.038m
Zone: 1/b	0.035m	0.016m	0.038m
Zone: 2/a	0.035m	0.016m	0.038m
Zone: 2/b	0.035m	0.016m	0.038m
Zone: 3	0.035m	0.016m	0.038m
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	5.56
Radial/Vertical	136.13
Bi-Radial Split	8.44

Materials

Material	Area (m ²)	Panels
Material 1	34.09	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\12,2\1 2\2,2\3,2\4,2\5,2b\1 2b\2,2b\3,2b\4,2b\5,3\1 3\2,3\3,3\4,3\5,3\6

