

Genoa: 8000505 Ryan-1 Merit 25 155% headsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000505 Ryan Me

Initial Design Date: 14/5/2024
Boat:
Merit 25
Client:

Comments:
155%%

Design Data
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Genoa

Measurements

Luff geodesic: 29.600Ft
Leech geodesic: 27.128Ft
Foot geodesic: 15.685Ft
Headboard width: 0.115Ft
Luff perpendicular (HLP): 14.492Ft
Upper width (HUW): 1.716Ft
Three-quarter width (HTW): 3.362Ft
Half width (HHW): 6.896Ft
Quarter width (HQW): 10.642Ft
Foot median: 28.035Ft
ORC Headsail area: 209.249Ft?
IRC Headsail area: 208.797Ft?
Surface area: 214.751Ft?
Forestay height: 30.050Ft
J: 9.350Ft

Draft Stripes

1, Luff: 9.812Ft ; Leech: 7.642Ft ;
2, Luff: 19.586Ft ; Leech: 17.206Ft ;

Luff Curve

29.596Ft, 0.000Ft
23.662Ft, 0.126Ft
17.731Ft, 0.173Ft
11.810Ft, 0.158Ft
5.900Ft, 0.099Ft
0.000Ft, 0.000Ft

Fanned Luff (@ 5.00% [0.753Ft])

100% (29.597Ft) : 0.000Ft
90% (26.638Ft) : -0.059Ft
80% (23.678Ft) : -0.117Ft
70% (20.719Ft) : -0.157Ft
60% (17.759Ft) : -0.174Ft
50% (14.799Ft) : -0.174Ft
40% (11.839Ft) : -0.166Ft
30% (8.879Ft) : -0.146Ft
20% (5.920Ft) : -0.111Ft
10% (2.957Ft) : -0.060Ft
0% (0.000Ft) : 0.000Ft

Before BSeam

-0.000Ft
0.054Ft
0.108Ft
0.165Ft
0.219Ft
0.257Ft
0.269Ft
0.251Ft
0.201Ft
0.118Ft
0.000Ft

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.082Ft	0.049Ft	0.082Ft
Zone: 1/b	0.082Ft	0.049Ft	0.082Ft
Zone: 2/a	0.082Ft	0.049Ft	0.082Ft
Zone: 2/b	0.082Ft	0.049Ft	0.082Ft
Zone: 3/a	0.082Ft	0.049Ft	0.082Ft
Zone: 3/b	0.082Ft	0.049Ft	0.082Ft
Zone: 4	0.082Ft	0.049Ft	0.082Ft

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000Ft	0.000Ft	0.000Ft

Total Seam Lengths (Ft)

Horizontal	23.53
Radial/Vertical	253.82
Bi-Radial Split	21.14

Materials

Material	Area (Ft ²)	Panels
Material 1	214.30	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1b\1,1b\2,1b\3,1b\4,1b\5 1b\6,1b\7,1b\8,1b\9,1b\10 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

