

Genoa: 8000505 Ryan-1 Merit 25 155% headsailV1.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: 18/5/2024
Boat:
Merit 25
Client:

Comments: 155%%

Design Data
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Genoa

Measurements

Luff geodesic:	29.429Ft
Leech geodesic:	26.938Ft
Foot geodesic:	15.704Ft
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:	27.848Ft
ORC Headsail area:	208.038Ft?
IRC Headsail area:	207.587Ft?
Surface area:	213.541Ft?
Forestay height:	30.050Ft
J:	9.350Ft

Draft Stripes

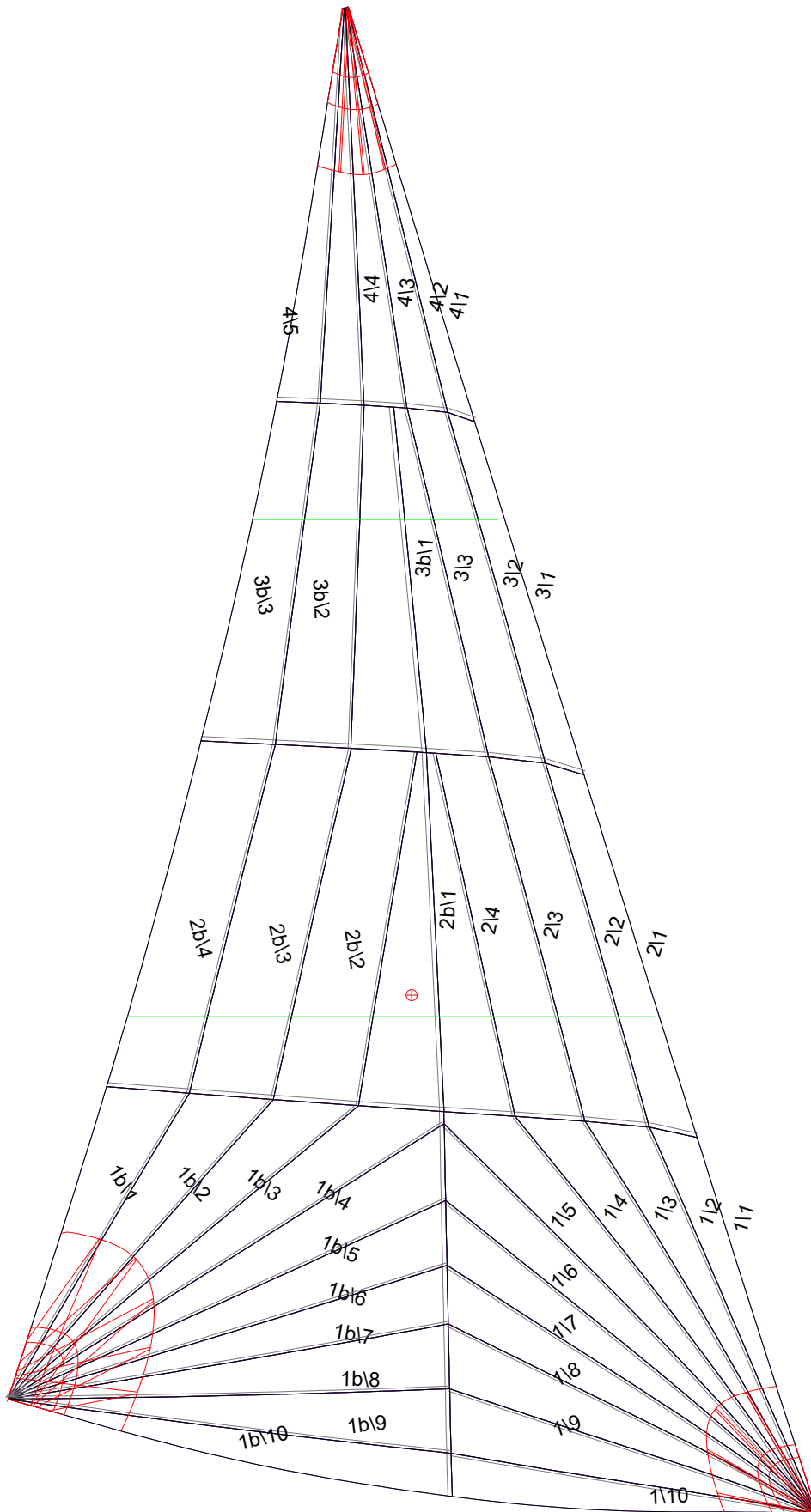
1, Luff: 9.756Ft ; Leech: 7.545Ft ;
2, Luff: 19.474Ft ; Leech: 17.064Ft ;

Luff Curve

29.426Ft,	0.000Ft
23.525Ft,	0.126Ft
17.628Ft,	0.173Ft
11.742Ft,	0.158Ft
5.866Ft,	0.099Ft
0.000Ft,	0.000Ft

Fanned Luff (@ 5.00% [0.754Ft])		Before BSeam
100% (29.426Ft) :	-0.000Ft	-0.000Ft
90% (26.485Ft) :	-0.060Ft	0.054Ft
80% (23.541Ft) :	-0.119Ft	0.109Ft
70% (20.599Ft) :	-0.160Ft	0.165Ft
60% (17.656Ft) :	-0.177Ft	0.220Ft
50% (14.713Ft) :	-0.178Ft	0.258Ft
40% (11.770Ft) :	-0.169Ft	0.270Ft
30% (8.827Ft) :	-0.150Ft	0.251Ft
20% (5.885Ft) :	-0.113Ft	0.202Ft
10% (2.940Ft) :	-0.062Ft	0.119Ft
0% (0.000Ft) :	0.000Ft	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	23.55
Radial/Vertical	252.95
Bi-Radial Split	21.00

Materials

Material	Area (Ft ²)	Panels
Material 1	213.11	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