

Genoa: 8000505 Ryan-2 Merit 25 135% 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:	26.768Ft
Foot geodesic:	13.866Ft
Headboard width:	0.115Ft
Luff perpendicular (HLP):	12.623Ft
Upper width (HUW):	1.483Ft
Three-quarter width (HTW):	2.902Ft
Half width (HHW):	5.970Ft
Quarter width (HQW):	9.220Ft
Foot median:	27.776Ft
ORC Headsail area:	181.541Ft?
IRC Headsail area:	181.269Ft?
Surface area:	183.161Ft?
Forestay height:	30.050Ft
J:	9.350Ft

Draft Stripes

1, Luff: 9.812Ft ; Leech: 7.506Ft ;
2, Luff: 19.586Ft ; Leech: 16.962Ft ;

Luff Curve

		Fanned Luff (@ 5.00% [0.676Ft])	Before BSeam
29.597Ft,	0.000Ft	100% (29.597Ft) :	0.000Ft
23.662Ft,	0.126Ft	90% (26.637Ft) :	-0.060Ft
17.731Ft,	0.173Ft	80% (23.678Ft) :	0.047Ft
11.810Ft,	0.158Ft	70% (20.718Ft) :	0.077Ft
5.900Ft,	0.099Ft	60% (17.759Ft) :	-0.162Ft
0.000Ft,	0.000Ft	50% (14.798Ft) :	0.105Ft
		40% (11.839Ft) :	-0.179Ft
		30% (8.878Ft) :	0.131Ft
		20% (5.920Ft) :	-0.180Ft
		10% (2.957Ft) :	0.146Ft
		0% (0.000Ft) :	-0.169Ft
			0.143Ft
			0.120Ft
			0.091Ft
			0.059Ft
			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	20.46
Radial/Vertical	241.78
Bi-Radial Split	20.87

Materials

Material	Area (Ft ²)	Panels
Material 1	183.34	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

