

Genoa: 8000807 Desiree Colvin Gazelle Hanks genoa.des

Design Info

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Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000807 Desiree C

Initial Design Date: 9/8/2024

Boat:

Colvin Gazelle

Client:

Comments:

Design Data

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Genoa

Measurements

Luff geodesic:	25.269Ft
Leech geodesic:	20.581Ft
Foot geodesic:	13.661Ft
Headboard width:	0.164Ft
Luff perpendicular (HLP):	11.290Ft
Upper width (HUW):	1.263Ft
Three-quarter width (HTW):	2.470Ft
Half width (HHW):	5.192Ft
Quarter width (HQW):	8.162Ft
Foot median:	22.405Ft
ORC Headsail area:	136.658Ft?
IRC Headsail area:	136.205Ft?
Surface area:	139.162Ft?
Forestay height:	28.000Ft
J:	10.000Ft

Luff Slides

- 1, Position: 1.626Ft
- 2, Position: 3.892Ft
- 3, Position: 6.159Ft
- 4, Position: 8.426Ft
- 5, Position: 10.693Ft
- 6, Position: 12.960Ft
- 7, Position: 15.226Ft
- 8, Position: 17.493Ft
- 9, Position: 19.760Ft
- 10, Position: 22.027Ft
- 11, Position: 24.294Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.644Ft])	Before BSeam	
25.263Ft,	0.000Ft	100% (25.263Ft) :	-0.000Ft	0.000Ft
23.164Ft,	0.086Ft	90% (22.737Ft) :	-0.115Ft	-0.031Ft
20.842Ft,	0.156Ft	80% (20.213Ft) :	-0.191Ft	-0.027Ft
18.798Ft,	0.192Ft	70% (17.686Ft) :	-0.226Ft	0.010Ft
16.422Ft,	0.206Ft	60% (15.160Ft) :	-0.229Ft	0.062Ft
12.572Ft,	0.181Ft	50% (12.633Ft) :	-0.210Ft	0.113Ft
8.210Ft,	0.123Ft	40% (10.106Ft) :	-0.176Ft	0.148Ft
4.270Ft,	0.061Ft	30% (7.580Ft) :	-0.135Ft	0.160Ft
0.000Ft,	0.000Ft	20% (5.053Ft) :	-0.091Ft	0.136Ft
		10% (2.525Ft) :	-0.047Ft	0.075Ft
		0% (0.000Ft) :	0.000Ft	0.000Ft

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.082Ft	0.082Ft	0.082Ft

Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000Ft	0.000Ft	0.000Ft

Total Seam Lengths (Ft)

Horizontal	33.82
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	139.57	1,2,3,4,5 6

