

Genoa: 8000820 Allan Pearson 28.5 Headsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000820 Allan Pearson

Initial Design Date: 6/9/2024
Boat:
Pearson 28.5
Client:

Comments:

Design Data
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Genoa

Measurements

Luff geodesic:	27.720Ft
Leech geodesic:	27.201Ft
Foot geodesic:	16.201Ft
Headboard width:	0.164Ft
Luff perpendicular (HLP):	15.477Ft
Upper width (HUW):	1.817Ft
Three-quarter width (HTW):	3.586Ft
Half width (HHW):	7.414Ft
Quarter width (HQW):	11.419Ft
Foot median:	26.764Ft
ORC Headsail area:	209.913Ft?
IRC Headsail area:	209.258Ft?
Surface area:	212.092Ft?
Forestay height:	30.000Ft
J:	9.900Ft

Luff Slides

- 1, Position: 1.333Ft
- 2, Position: 3.656Ft
- 3, Position: 5.979Ft
- 4, Position: 8.302Ft
- 5, Position: 10.625Ft
- 6, Position: 12.948Ft
- 7, Position: 15.271Ft
- 8, Position: 17.594Ft
- 9, Position: 19.917Ft
- 10, Position: 22.240Ft
- 11, Position: 24.563Ft
- 12, Position: 26.886Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.791Ft])	Before BSeam
27.715Ft,	0.000Ft	100% (27.715Ft) :	-0.000Ft 0.000Ft
25.412Ft,	0.094Ft	90% (24.941Ft) :	-0.106Ft -0.001Ft
22.864Ft,	0.170Ft	80% (22.176Ft) :	-0.181Ft 0.021Ft
20.622Ft,	0.209Ft	70% (19.402Ft) :	-0.219Ft 0.061Ft
18.015Ft,	0.224Ft	60% (16.631Ft) :	-0.221Ft 0.110Ft
13.792Ft,	0.197Ft	50% (13.858Ft) :	-0.200Ft 0.154Ft
9.007Ft,	0.133Ft	40% (11.087Ft) :	-0.169Ft 0.181Ft
4.685Ft,	0.067Ft	30% (8.314Ft) :	-0.129Ft 0.181Ft
0.000Ft,	0.000Ft	20% (5.545Ft) :	-0.087Ft 0.149Ft
		10% (2.769Ft) :	-0.044Ft 0.086Ft
		0% (0.000Ft) :	0.000Ft 0.000Ft

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.098Ft	0.049Ft	0.098Ft
Zone: 1/b	0.098Ft	0.049Ft	0.098Ft
Zone: 2/a	0.098Ft	0.049Ft	0.098Ft
Zone: 2/b	0.098Ft	0.049Ft	0.098Ft
Zone: 3	0.098Ft	0.049Ft	0.098Ft

Edge Excesses

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

Total Seam Lengths (Ft)

Horizontal	15.75
Radial/Vertical	241.70
Bi-Radial Split	18.69

Materials

Material	Area (Ft ²)	Panels
Material 2	212.30	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1b\1 1b\2,1b\3,1b\4,1b\5,1b\6 1b\7,1b\8,1b\9,1b\10,2\1 2\2,2\3,2b\1,2b\2,2b\3 2b\4,3\1,3\2,3\3,3\4 3\5

