

Genoa: 8000516 Adrian Farr 727 hanks headsail.des

Design Info

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Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000516 Adrian Farr

Initial Design Date: 21/5/2024

Boat:

Farr 727

Client:

Comments:

Design Data

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Genoa

Measurements

Luff geodesic:	7.030m
Leech geodesic:	6.000m
Foot geodesic:	2.800m
Headboard width:	0.040m
Luff perpendicular (HLP):	2.373m
Upper width (HUW):	0.284m
Three-quarter width (HTW):	0.539m
Half width (HHW):	1.096m
Quarter width (HQW):	1.713m
Foot median:	6.471m
ORC Headsail area:	8.037m?
IRC Headsail area:	8.021m?
Surface area:	8.182m?
Forestay height:	7.500m
J:	2.310m

Draft Stripes

1, Luff: 3.527m ; Leech: 2.620m ;

Luff Slides

1, Position: 0.500m
2, Position: 1.203m
3, Position: 1.907m
4, Position: 2.610m
5, Position: 3.313m
6, Position: 4.017m
7, Position: 4.720m
8, Position: 5.423m
9, Position: 6.127m
10, Position: 6.830m

Luff Curve

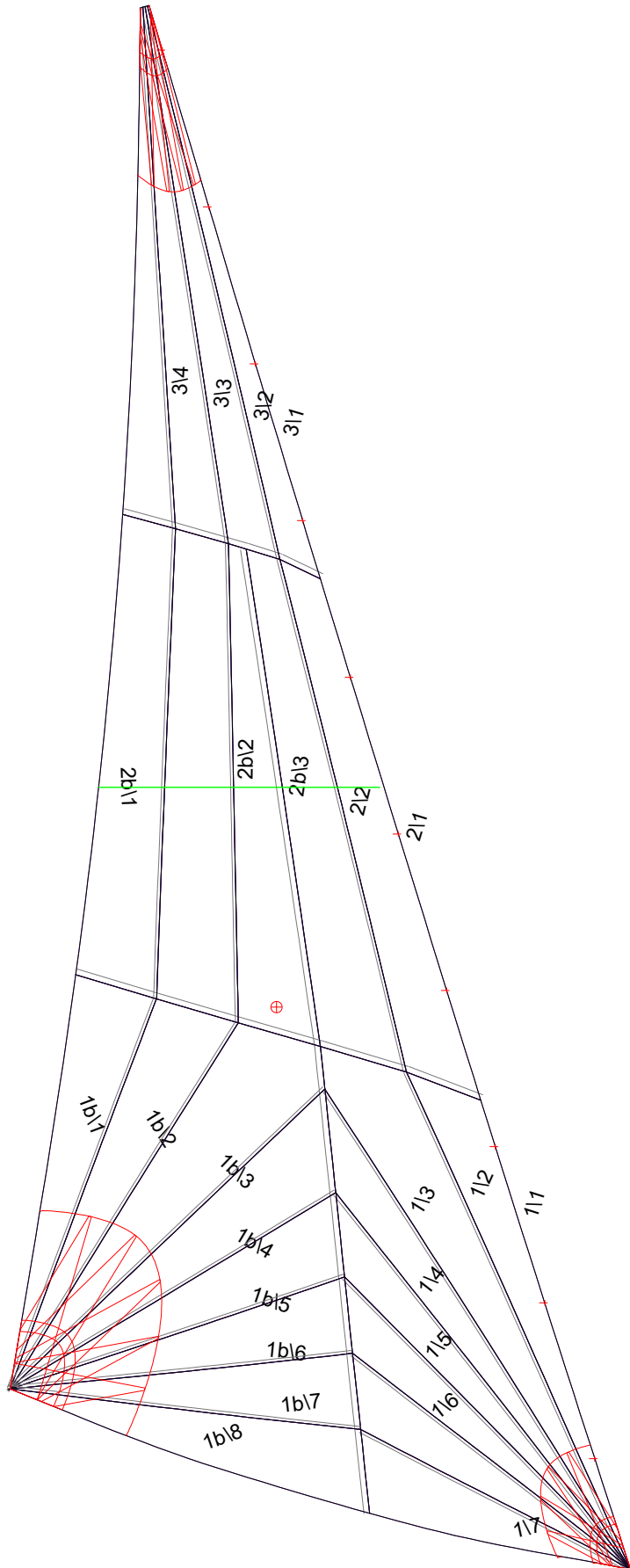
7.029m,	0.000m
5.620m,	0.030m
4.211m,	0.041m
2.805m,	0.037m
1.401m,	0.024m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.133m])

100% (7.029m) :	-0.000m	-0.000m
90% (6.327m) :	-0.015m	0.005m
80% (5.623m) :	-0.030m	0.007m
70% (4.921m) :	-0.039m	0.011m
60% (4.218m) :	-0.044m	0.015m
50% (3.515m) :	-0.045m	0.019m
40% (2.812m) :	-0.043m	0.020m
30% (2.109m) :	-0.037m	0.018m
20% (1.406m) :	-0.028m	0.015m
10% (0.702m) :	-0.015m	0.010m
0% (0.000m) :	0.000m	0.000m

Before BSeam

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.025m	0.013m	0.025m
Zone: 1/b	0.025m	0.013m	0.025m
Zone: 2/a	0.025m	0.013m	0.025m
Zone: 2/b	0.025m	0.013m	0.025m
Zone: 3	0.025m	0.013m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	2.83
Radial/Vertical	36.87
Bi-Radial Split	4.35

Materials

Material	Area (m ²)	Panels
Material 1	8.16	1\1, 1\2, 1\3, 1\4, 1\5 1\6, 1\7, 1b\1, 1b\2, 1b\3 1b\4, 1b\5, 1b\6, 1b\7, 1b\8 2\1, 2\2, 2b\3, 2b\2, 2b\1 3\1, 3\2, 3\3, 3\4