

Gaff Sail: 7000217 Lee-1 Gaff schooner mainV2.des

Design Info
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Design File:
\\Nas\工程部-专用文件\Queenie-跟进客户\Fareast Sails\2023 Order\Need Confrim Order\7000217 Lee\7000217 Lee-1

Initial Design Date: 7/3/2023
Boat:

Comments:

Client:

Design Data
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Gaff - High Aspect Ratio

Measurements

Luff Geodesic: 7.250m
Leech Geodesic: 8.800m
Foot Geodesic: 6.800m
Head Geodesic: 3.520m
Diagonal Girth: 9.750m
Foot Median: 7.996m
Girth (50%-50%): 5.131m
Surface Area: 41.141m²

Reefing Points

1, Luff: 1.260m ; Leech: 1.376m ; Offset: 0.000m ; Number Eyelets: 5
2, Luff: 2.635m ; Leech: 2.863m ; Offset: 0.000m ; Number Eyelets: 5

Luff Slides

1, Position: 0.400m
2, Position: 1.117m
3, Position: 1.833m
4, Position: 2.550m
5, Position: 3.267m
6, Position: 3.983m
7, Position: 4.700m
8, Position: 5.417m
9, Position: 6.133m
10, Position: 6.850m

Luff Curve

		Fanned Luff (@ 5.00% [0.339m])	Before BSeam
7.250m,	0.000m	100% (9.317m) :	0.000m
5.437m,	-0.038m	95% (8.829m) :	0.730m
3.625m,	-0.051m	85% (7.929m) :	1.773m
1.812m,	-0.038m	76% (7.087m) :	2.494m
0.000m,	0.000m	65% (6.046m) :	2.416m
		54% (5.033m) :	1.857m
		43% (4.021m) :	1.681m
		32% (3.012m) :	1.277m
		22% (2.007m) :	0.858m
		11% (1.002m) :	0.427m
		0% (0.000m) :	0.000m

Section Data

Position	Camber	Draft	Twist	Entry	Exit	Roach	Fwd Camb	Aft Camb
100.00%	0.089%	50.513%	0.373?	0.000?	-1.893?	0.000m	0.000%	0.000%
93.58%	2.438%	44.717%	0.917?	9.432?	-6.892?	-0.018m	1.664%	1.704%
87.01%	4.764%	40.642%	1.236?	14.776?	-10.673?	-0.038m	3.543%	3.558%
78.15%	6.483%	40.754%	1.494?	17.606?	-15.346?	-0.075m	4.840%	4.975%
67.37%	7.412%	45.216%	1.506?	13.047?	-18.864?	-0.114m	4.977%	5.431%
63.28%	9.164%	41.738%	1.595?	17.449?	-19.539?	-0.126m	6.499%	6.807%
49.60%	10.935%	40.846%	1.424?	35.742?	-19.906?	-0.172m	8.670%	8.320%
40.08%	10.411%	40.991%	1.175?	38.880?	-18.419?	-0.183m	8.359%	7.854%
25.00%	8.379%	41.216%	0.755?	33.690?	-14.103?	-0.160m	6.760%	6.194%
11.93%	5.537%	41.216%	0.344?	25.663?	-9.079?	-0.092m	4.535%	4.076%
0.00%	2.300%	41.216%	0.000?	14.500?	-3.945?	0.000m	1.975%	1.707%

Chord Data

Luff : 7.2496m
Foot : 6.7859m
Head : 3.5105m
Diagonal : 9.6340m
Leech : 8.7749m
Headboard width : 0.0100m

Fanned Foot Curve Depths

25.0%	50.0%	75.0%
0.0600m	0.0796m	0.0581m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.032m	0.032m	0.032m

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

Total Seam Lengths (m)

Horizontal	0.00
Radial/Vertical	64.49
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	41.21	1,2,3,4,5 6,7,8,9,10 11

