

Genoa: 8001010 Graham Traditional 30 headsailV2.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8001010 Graham

Initial Design Date: 4/12/2024
Boat:
Traditional 30
Client:

Comments:

Design Data
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Genoa

Measurements

Luff geodesic: 9.752m
Leech geodesic: 9.700m
Foot geodesic: 5.820m
Headboard width: 0.035m
Luff perpendicular (HLP): 5.588m
Upper width (HUW): 0.657m
Three-quarter width (HTW): 1.308m
Half width (HHW): 2.696m
Quarter width (HQW): 4.133m
Foot median: 9.528m
ORC Headsail area: 26.734m?
IRC Headsail area: 26.673m?
Surface area: 27.206m?
Forestay height: 10.300m
J: 3.240m

Draft Stripes

1, Luff: 3.233m ; Leech: 3.207m ;
2, Luff: 6.453m ; Leech: 6.400m ;

Luff Curve

9.751m, 0.000m
7.796m, 0.041m
5.842m, 0.057m
3.891m, 0.052m
1.944m, 0.033m
0.000m, 0.000m

Fanned Luff (@ 5.00% [0.284m])

100% (9.751m) : -0.000m
90% (8.775m) : -0.021m
80% (7.802m) : -0.040m
70% (6.826m) : -0.053m
60% (5.851m) : -0.059m
50% (4.876m) : -0.059m
40% (3.900m) : -0.056m
30% (2.925m) : -0.048m
20% (1.951m) : -0.036m
10% (0.974m) : -0.019m
0% (0.000m) : 0.000m

Before BSeam

0.000m
0.014m
0.028m
0.042m
0.057m
0.067m
0.070m
0.065m
0.051m
0.029m
0.000m

Section Data

Position	Camber	Draft	Twist	Entry	Exit	Roach	Fwd Camb	Aft Camb
100.00%	13.794%	40.000%	17.091?	39.272?	-15.921?	0.000m	10.743%	9.571%
95.00%	14.082%	39.846%	16.237?	41.145?	-17.071?	-0.030m	11.059%	9.878%
75.00%	14.846%	39.231%	12.818?	45.506?	-19.658?	-0.135m	11.817%	10.624%
50.00%	14.511%	38.461%	8.546?	44.905?	-18.996?	-0.173m	11.602%	10.432%
25.00%	12.502%	37.692%	4.273?	41.198?	-16.870?	-0.134m	10.154%	9.108%
5.00%	9.756%	37.211%	0.855?	33.186?	-12.582?	-0.031m	7.878%	7.104%
0.00%	8.700%	36.779%	0.000?	30.486?	-11.224?	0.000m	7.022%	6.362%

Chord Data

Luff LL : 9.7510m
Leech : 9.6366m
Luff Perpendicular : 4.7694m
Clew Height : 0.0686m
Headboard width : 0.0350m

Fanned Foot Curve Depths

25.0% 50.0% 75.0%
0.1126m 0.1725m 0.1302m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.025m	0.025m	0.025m

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

Total Seam Lengths (m)

Horizontal	23.43
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	27.25	1,2,3,4,5 6,7,8

