

Genoa: 4001031 Aaron headsail.des

Design Info
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Design File:
F:\Dropbox (个人)\Fareast Sails\2020\4001031 Aaron\4001031 Aaron headsail.des

Initial Design Date: 7/11/2020
Boat:

Comments:

Client:

Design Data
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Genoa

Measurements

Luff geodesic: 12.550m
Leech geodesic: 11.476m
Foot geodesic: 5.490m
Headboard width: 0.035m
Luff perpendicular (HLP): 5.063m
Upper width (HUW): 0.553m
Three-quarter width (HTW): 1.096m
Half width (HHW): 2.322m
Quarter width (HQW): 3.667m
Foot median: 11.898m
ORC Headsail area: 30.343m?
IRC Headsail area: 30.259m?
Surface area: 30.686m?
Forestay height: 13.280m
J: 3.750m

Luff Curve

12.547m, 0.000m
11.504m, 0.047m
10.351m, 0.085m
9.336m, 0.104m
8.156m, 0.112m
6.244m, 0.098m
4.078m, 0.066m
2.121m, 0.033m
0.000m, 0.000m

Fanned Luff (@ 5.00% [0.270m])

100% (12.547m) : -0.000m
90% (11.292m) : -0.050m
80% (10.040m) : -0.093m
70% (8.784m) : -0.113m
60% (7.529m) : -0.113m
50% (6.274m) : -0.102m
40% (5.019m) : -0.086m
30% (3.764m) : -0.066m
20% (2.510m) : -0.046m
10% (1.254m) : -0.025m
0% (0.000m) : 0.000m

Before BSeam

0.000m
-0.018m
-0.031m
-0.027m
-0.011m
0.009m
0.029m
0.043m
0.044m
0.025m
0.000m

Section Data

Position	Camber	Draft	Twist	Entry	Exit	Roach	Fwd Camb	Aft Camb
100.00%	12.089%	40.000%	15.000?	41.310?	-20.579?	0.000m	9.714%	8.457%
80.00%	12.140%	39.000%	12.000?	40.834?	-20.246?	-0.140m	9.728%	8.538%
60.00%	11.996%	38.000%	9.000?	40.192?	-19.671?	-0.212m	9.589%	8.438%
40.00%	11.477%	37.000%	6.000?	39.050?	-18.601?	-0.213m	9.196%	8.081%
20.00%	9.651%	36.000%	3.000?	35.108?	-15.495?	-0.150m	7.858%	6.814%
10.00%	7.469%	35.500%	1.500?	28.443?	-11.943?	-0.088m	6.155%	5.289%
0.00%	4.076%	35.000%	0.000?	18.435?	-6.776?	0.000m	3.563%	2.932%

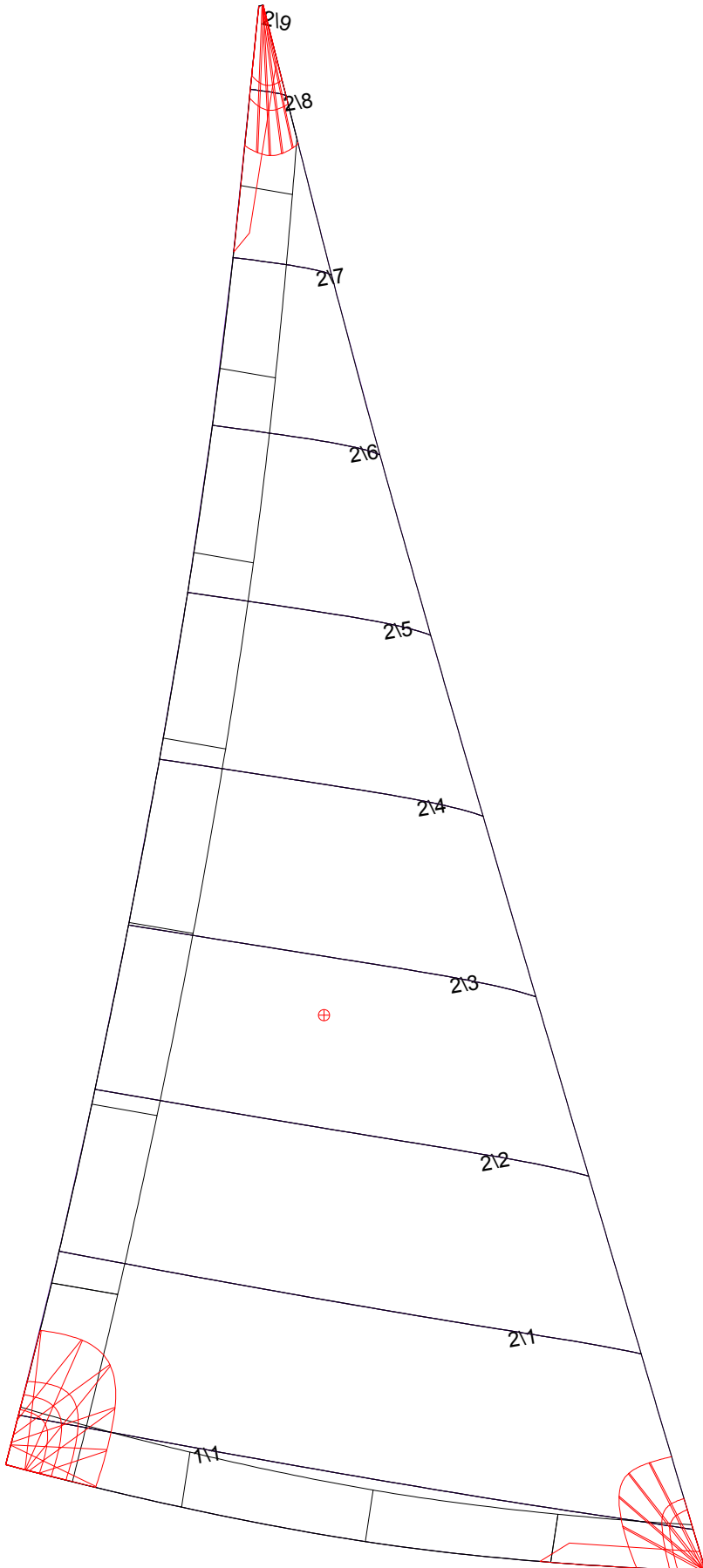
Chord Data

Luff LL : 12.5470m
Leech : 11.4282m
Luff Perpendicular : 4.9671m
Clew Height : 0.8200m
Headboard width : 0.0350m

Fanned Foot Curve Depths

25.0% 50.0% 75.0%
0.1002m 0.1426m 0.1011m

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Seam Allowances

	Split	Radial	Cross
Zone: 1	0.038m	0.015m	0.038m
Zone: 2	0.038m	0.015m	0.038m
Cover 1	0.025m	0.025m	0.025m
Cover 2	0.025m	0.025m	0.025m

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.050m	0.050m	0.050m
Cover 1	0.050m	0.050m	0.050m

Total Seam Lengths (m)

Horizontal	24.44
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	30.78	11,21,22,23,24 25,26,27,28,29