

Genoa: 5001103 Head-1.des

Design Info
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Design File:
E:\Dropbox\Fareast Sails\2021\5001103 Peter\5001103 Head-1.des

Initial Design Date: 12/11/2021
Boat:

Comments:

Client:

Design Data
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Genoa

Measurements

Luff geodesic: 12.100m
 Leech geodesic: 11.386m
 Foot geodesic: 3.902m
 Headboard width: 0.035m
 Luff perpendicular (HLP): 3.670m
 Upper width (HUW): 0.485m
 Three-quarter width (HTW): 0.942m
 Half width (HHW): 1.864m
 Quarter width (HQW): 2.773m
 Foot median: 11.722m
 ORC Headsail area: 22.428m?
 IRC Headsail area: 22.432m?
 Surface area: 22.732m?
 Forestay height: 12.360m
 J: 3.450m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.100m	0.000m	161.611?	71.648m	9.081m	
60.000%	1.200m	0.000m	161.611?	151.493m	6.811m	
40.000%	1.200m	0.000m	161.611?	231.338m	4.541m	
20.000%	1.200m	0.000m	161.611?	311.182m	2.270m	

Luff Curve

		Fanned Luff (@ 5.00% [0.193m])	Before BSeam
12.099m,	0.000m	100% (12.099m) :	-0.000m 0.000m
9.074m,	0.052m	90% (10.889m) :	-0.021m 0.001m
6.050m,	0.069m	80% (9.680m) :	-0.041m 0.003m
3.025m,	0.052m	70% (8.469m) :	-0.056m 0.006m
0.000m,	0.000m	60% (7.259m) :	-0.065m 0.009m
		50% (6.049m) :	-0.070m 0.008m
		40% (4.840m) :	-0.068m 0.006m
		30% (3.629m) :	-0.060m 0.003m
		20% (2.420m) :	-0.046m 0.001m
		10% (1.209m) :	-0.024m -0.001m
		0% (0.000m) :	0.000m 0.000m

Section Data

Position	Camber	Draft	Twist	Entry	Exit	Roach	Fwd Camb	Aft Camb
100.00%	6.178%	41.484%	19.969?	26.952?	-11.648?	0.000m	5.143%	4.743%
80.00%	10.747%	42.559%	15.975?	54.529?	-22.483?	-0.072m	8.823%	8.135%
60.00%	11.500%	42.431%	11.982?	60.132?	-24.691?	-0.106m	9.206%	8.679%
39.99%	10.122%	41.720%	7.987?	58.054?	-22.096?	-0.097m	8.152%	7.660%
20.00%	8.064%	40.663%	3.994?	49.160?	-17.753?	-0.059m	6.604%	6.145%
10.00%	6.608%	40.221%	1.997?	41.215?	-14.909?	-0.032m	5.479%	5.070%
0.00%	4.932%	39.779%	0.000?	31.098?	-11.603?	0.000m	4.148%	3.824%

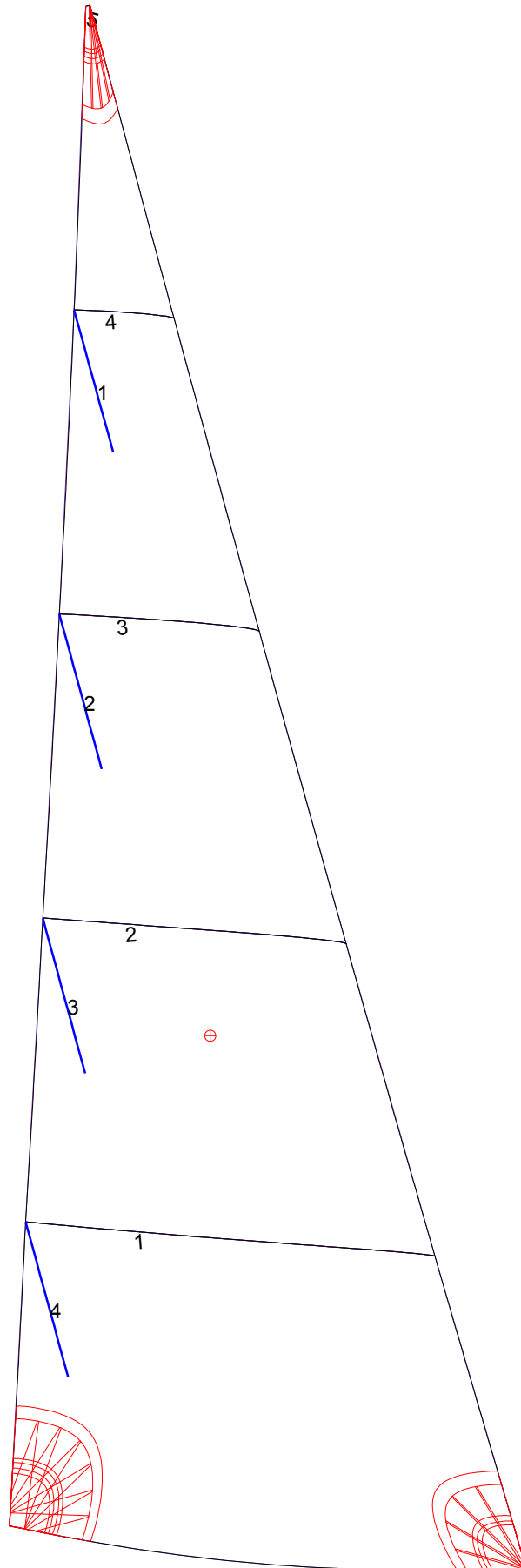
Chord Data

Luff LL : 12.0989m
 Leech : 11.3514m
 Luff Perpendicular : 3.6267m
 Clew Height : 0.3180m
 Headboard width : 0.0350m

Fanned Foot Curve Depths

25.0% 50.0% 75.0%
 0.0818m 0.1140m 0.0832m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.000m	0.000m	0.040m

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

Total Seam Lengths (m)

Horizontal	7.89
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	22.80	1,2,3,4,5