Genoa: 5001020 Daniel.des

Design Info
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Design File:
E:\Dropbox\Fareast Sails\2021\5001020 Daniel\5001020 Daniel.des

Comments:

Initial Design Date: 2/11/2021
Boat:

Client:

Design Data
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Genoa

Measurements

Luff geodesic:	12.650m
Leech geodesic:	12.570m
Foot geodesic:	6.890m
Headboard width:	0.035m
Luff perpendicular (HLP):	6.624m
Upper width (HUW):	0.781m
Three-quarter width (HTW):	1.555m
Half width (HHW):	3.209m
Quarter width (HQW):	4.915m
Foot median:	12.382m
ORC Headsail area:	41.175m?
IRC Headsail area:	41.095m?
Surface area:	41.771m?
Forestay height:	13.800m
J:	4.250m

Luff Curve

12.649m,	0.000m
9.487m,	0.054m
6.325m,	0.072m
3.162m,	0.054m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.341m])		Before BSeam
100% (12.649m) :	0.000m	-0.000m
90% (11.383m) :	-0.021m	0.012m
80% (10.120m) :	-0.041m	0.024m
70% (8.854m) :	-0.055m	0.037m
60% (7.590m) :	-0.065m	0.046m
50% (6.324m) :	-0.069m	0.048m
40% (5.060m) :	-0.068m	0.044m
30% (3.794m) :	-0.061m	0.037m
20% (2.530m) :	-0.047m	0.025m
10% (1.263m) :	-0.026m	0.010m
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%	4.714%
80.00%	10.747%	42.559%	15.975?	54.529?	-22.483?	-0.129m	8.821%	8.133%
60.00%	11.500%	42.431%	11.982?	60.132?	-24.691?	-0.189m	9.206%	8.679%
39.99%	10.122%	41.720%	7.987?	58.054?	-22.096?	-0.173m	8.152%	7.660%
20.00%	8.064%	40.663%	3.994?	49.160?	-17.753?	-0.105m	6.604%	6.145%
10.00%	6.608%	40.221%	1.997?	41.215?	-14.909?	-0.057m	5.478%	5.068%
0.00%	4.932%	39.779%	0.000?	31.098?	-11.603?	0.000m	4.144%	3.817%

Chord Data

Luff LL	: 12.6489m
Leech	: 12.4791m
Luff Perpendicular	: 4.6776m
Clew Height	: 0.0016m
Headboard width	: 0.0350m

Fanned Foot Curve Depths

25.0%	50.0%	75.0%
0.1346m	0.1913m	0.1405m

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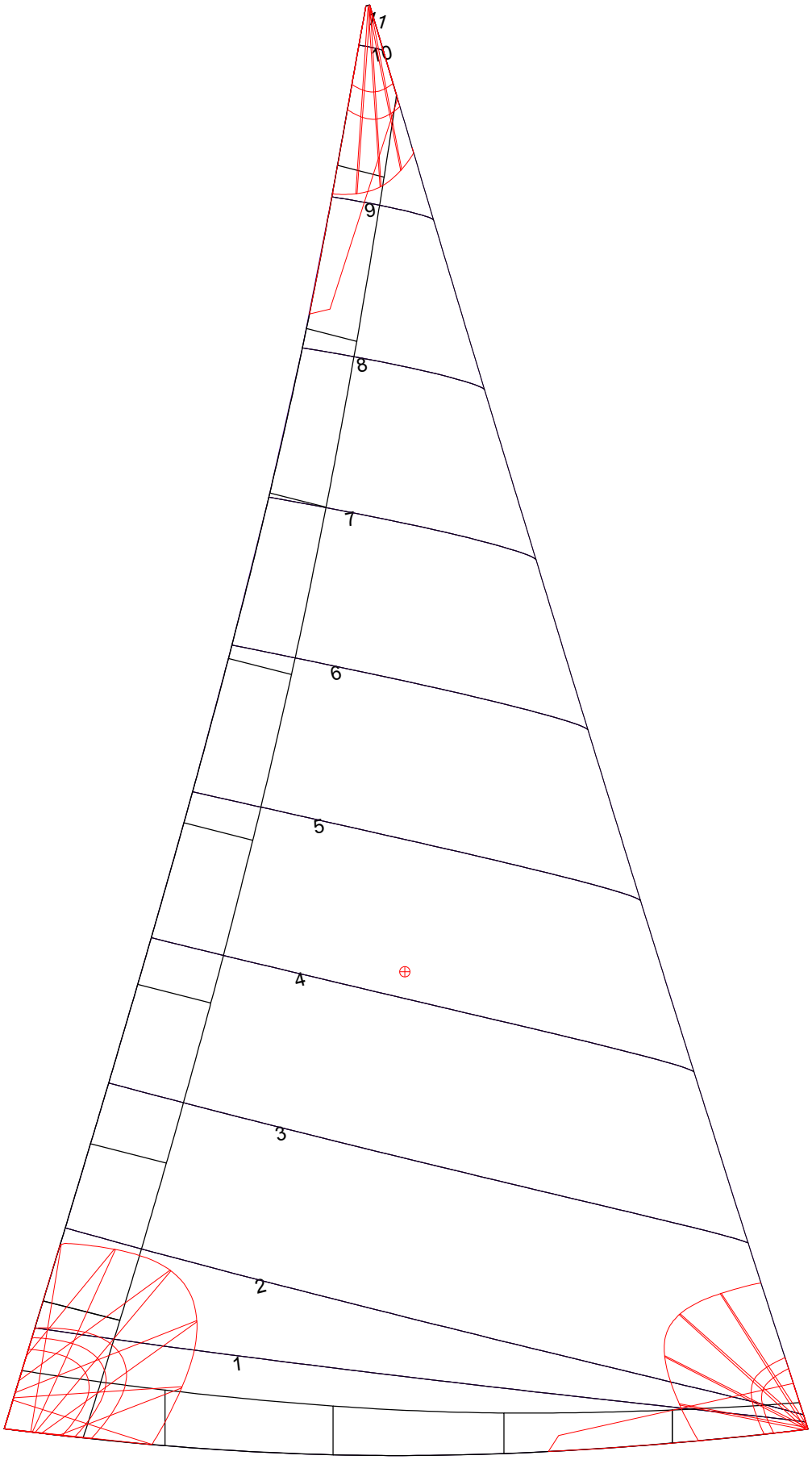

Seam Allowances

	Split	Radial	Cross
Zone: 1	0.000m	0.000m	0.025m
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	36.38
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m?	Panels
Material 1	41.88	1,2,3,4,5 6,7,8,9,10 11