

Genoa: 5001011 Brian.des

Design Info
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Design File:
E:\Dropbox\Fareast Sails\2021\5001011 Brian\5001011 Brian.des

Initial Design Date: 20/10/2021
Boat:

Comments:

Client:

Design Data
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Genoa

Measurements

Luff geodesic: 15.900m
 Leech geodesic: 14.428m
 Foot geodesic: 7.273m
 Headboard width: 0.035m
 Luff perpendicular (HLP): 6.615m
 Upper width (HUW): 0.773m
 Three-quarter width (HTW): 1.538m
 Half width (HHW): 3.182m
 Quarter width (HQW): 4.890m
 Foot median: 14.991m
 ORC Headsail area: 51.484m?
 IRC Headsail area: 51.386m?
 Surface area: 52.221m?
 Forestay height: 16.600m
 J: 4.900m

Luff Curve

15.898m, 0.000m
 11.924m, 0.068m
 7.950m, 0.090m
 3.975m, 0.068m
 0.000m, 0.000m

Fanned Luff (@ 5.00% [0.356m])
 Before BSeam
 100% (15.899m) : -0.000m -0.000m
 90% (14.308m) : -0.029m 0.010m
 80% (12.719m) : -0.055m 0.020m
 70% (11.129m) : -0.076m 0.032m
 60% (9.539m) : -0.088m 0.041m
 50% (7.949m) : -0.093m 0.043m
 40% (6.359m) : -0.091m 0.040m
 30% (4.769m) : -0.081m 0.033m
 20% (3.180m) : -0.062m 0.022m
 10% (1.588m) : -0.033m 0.009m
 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	5.114%	4.686%
80.00%	10.747%	42.559%	15.975?	54.529?	-22.483?	-0.131m	8.821%	8.135%
60.00%	11.500%	42.431%	11.982?	60.132?	-24.691?	-0.194m	9.206%	8.679%
39.99%	10.122%	41.720%	7.987?	58.054?	-22.096?	-0.177m	8.152%	7.660%
20.00%	8.064%	40.663%	3.994?	49.160?	-17.753?	-0.107m	6.603%	6.144%
10.00%	6.608%	40.221%	1.997?	41.215?	-14.909?	-0.058m	5.478%	5.068%
0.00%	4.932%	39.779%	0.000?	31.098?	-11.603?	0.000m	4.156%	3.842%

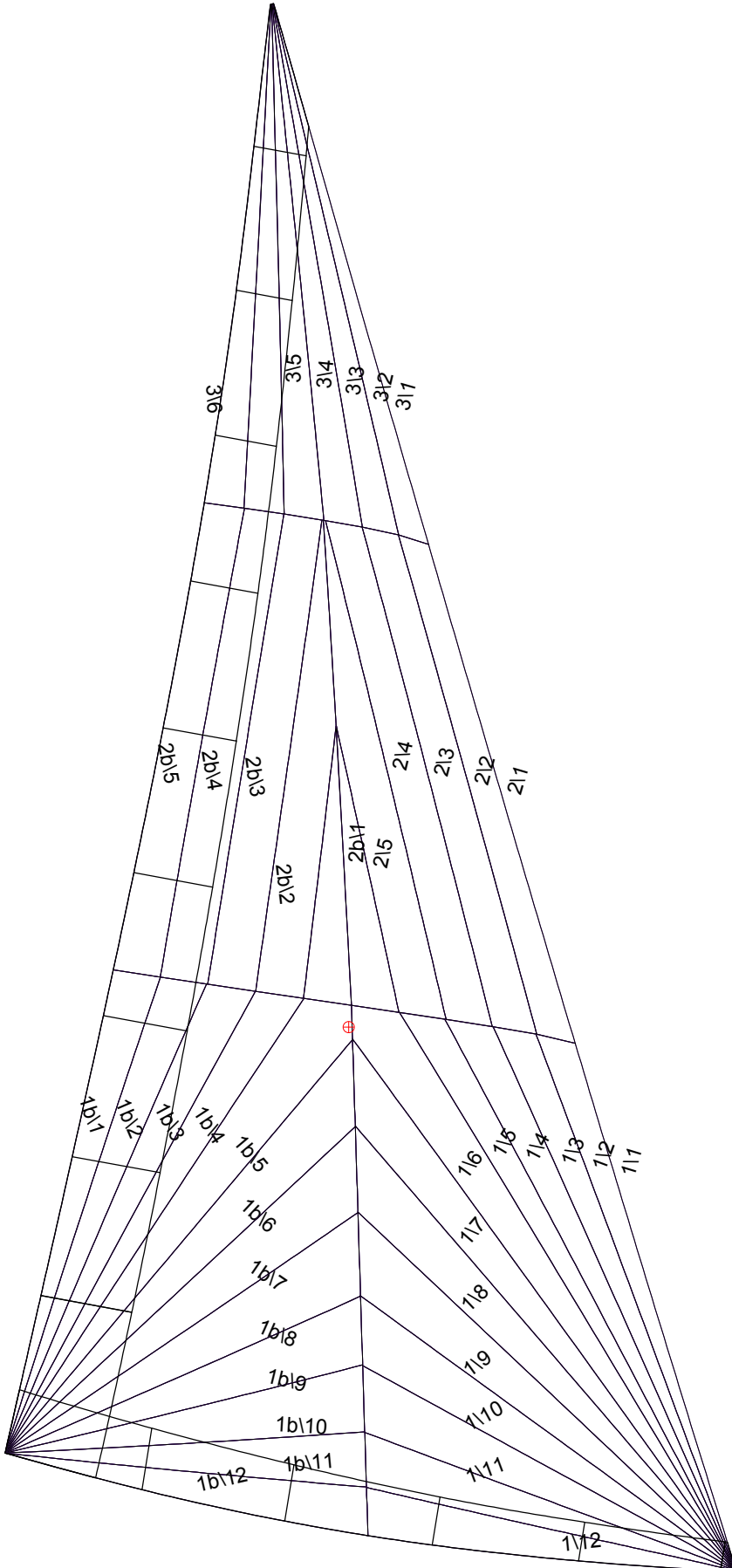
Chord Data

Luff LL : 15.8985m
 Leech : 14.3382m
 Luff Perpendicular : 6.4976m
 Clew Height : 1.1500m
 Headboard width : 0.0350m

Fanned Foot Curve Depths

Curve Depths
 25.0% 50.0% 75.0%
 0.1432m 0.1989m 0.1443m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.015m	0.038m
Zone: 1/b	0.038m	0.015m	0.038m
Zone: 2/a	0.038m	0.015m	0.038m
Zone: 2/b	0.038m	0.015m	0.038m
Zone: 3	0.038m	0.015m	0.038m
Cover 1	0.025m	0.025m	0.025m
Cover 2	0.025m	0.025m	0.025m

Edge Excesses

Sail:	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	7.07
Radial/Vertical	167.56
Bi-Radial Split	10.22

Materials

Material	Area (m ²)	Panels
Material 1	52.32	1\1, 1\2, 1\3, 1\4, 1\5 1\6, 1\7, 1\8, 1\9, 1\10 1\11, 1\12, 1b\1, 1b\2, 1b\3 1b\4, 1b\5, 1b\6, 1b\7, 1b\8 1b\9, 1b\10, 1b\11, 1b\12, 2\1 2\2, 2\3, 2\4, 2\5, 2b\1 2b\2, 2b\3, 2b\4, 2b\5, 3\1 3\2, 3\3, 3\4, 3\5, 3\6