

Genoa: 5000315 Michael headsail.des

Design Info
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Design File:
F:\Dropbox (个人)\Fareast Sails\2021\5000315 Michael\5000315 Michael headsail.des

Initial Design Date: 24/3/2021
Boat:

Comments:

Client:

Design Data
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Genoa

Measurements

Luff geodesic: 8.510m
 Leech geodesic: 8.088m
 Foot geodesic: 5.070m
 Headboard width: 0.035m
 Luff perpendicular (HLP): 4.752m
 Upper width (HUW): 0.535m
 Three-quarter width (HTW): 1.059m
 Half width (HHW): 2.215m
 Quarter width (HQW): 3.463m
 Foot median: 8.090m
 ORC Headsail area: 19.480m?
 IRC Headsail area: 19.439m?
 Surface area: 19.735m?
 Forestay height: 8.860m
 J: 3.520m

Luff Curve

		Fanned Luff (@ 5.00% [0.252m])	Before BSeam
8.508m,	0.000m	100% (8.508m) :	0.000m
7.801m,	0.029m	90% (7.656m) :	-0.004m
7.019m,	0.052m	80% (6.808m) :	-0.004m
6.331m,	0.064m	70% (5.956m) :	0.004m
5.531m,	0.069m	60% (5.106m) :	0.017m
4.234m,	0.060m	50% (4.254m) :	0.033m
2.765m,	0.041m	40% (3.404m) :	0.046m
1.438m,	0.020m	30% (2.552m) :	0.055m
0.000m,	0.000m	20% (1.702m) :	0.050m
		10% (0.850m) :	0.027m
		0% (0.000m) :	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	9.743%	8.457%
80.00%	12.140%	39.000%	12.000?	40.834?	-20.246?	-0.129m	9.727%	8.536%
60.00%	11.996%	38.000%	9.000?	40.192?	-19.671?	-0.196m	9.590%	8.438%
40.00%	11.477%	37.000%	6.000?	39.050?	-18.601?	-0.196m	9.196%	8.080%
20.00%	9.651%	36.000%	3.000?	35.108?	-15.495?	-0.138m	7.858%	6.814%
10.00%	7.469%	35.500%	1.500?	28.443?	-11.943?	-0.081m	6.155%	5.289%
0.00%	4.076%	35.000%	0.000?	18.435?	-6.776?	0.000m	3.554%	2.906%

Chord Data

Luff LL : 8.5083m
 Leech : 8.0338m
 Luff Perpendicular : 4.6434m
 Clew Height : 0.1000m
 Headboard width : 0.0350m

Fanned Foot Curve Depths

25.0% 50.0% 75.0%
 0.0839m 0.1233m 0.0884m

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.025m
Zone: 1/b	0.025m	0.015m	0.025m
Zone: 2	0.025m	0.015m	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	0.100m	0.050m
Cover 1	0.050m	0.100m	0.050m

Total Seam Lengths (m)

Horizontal	19.54
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	19.80	1\1,1b\1,2\1,2\2,2\3 2\4,2\5,2\6

