

Genoa: 5000108 James headsail tri radial R1.des

Design Info
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Design File:
F:\Dropbox (个人)\Fareast Sails\2021\5000108 James\5000108 James headsail tri radial R1.des

Initial Design Date: 15/1/2021
Boat:

Comments:

Client:

Design Data
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Genoa

Measurements

Luff geodesic: 10.800m
 Leech geodesic: 10.173m
 Foot geodesic: 4.680m
 Headboard width: 0.035m
 Luff perpendicular (HLP): 4.423m
 Upper width (HUW): 0.489m
 Three-quarter width (HTW): 0.963m
 Half width (HHW): 2.027m
 Quarter width (HQW): 3.216m
 Foot median: 10.396m
 ORC Headsail area: 22.854m?
 IRC Headsail area: 22.762m?
 Surface area: 23.096m?
 Forestay height: 11.200m
 J: 3.800m

Luff Curve

		Fanned Luff (@ 5.00% [0.232m])	Before BSeam
10.798m,	0.000m	100% (10.798m) :	0.000m
9.901m,	0.036m	90% (9.717m) :	-0.012m
8.908m,	0.066m	80% (8.640m) :	-0.021m
8.035m,	0.081m	70% (7.559m) :	-0.017m
7.019m,	0.087m	60% (6.479m) :	-0.004m
5.373m,	0.076m	50% (5.399m) :	0.012m
3.509m,	0.052m	40% (4.320m) :	0.027m
1.825m,	0.026m	30% (3.239m) :	0.039m
0.000m,	0.000m	20% (2.160m) :	0.039m
		10% (1.079m) :	0.022m
		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	9.771%	8.514%
80.00%	12.140%	39.000%	12.000?	40.834?	-20.246?	-0.124m	9.728%	8.537%
60.00%	11.996%	38.000%	9.000?	40.192?	-19.671?	-0.198m	9.589%	8.438%
40.00%	11.477%	37.000%	6.000?	39.050?	-18.601?	-0.197m	9.196%	8.080%
20.00%	9.651%	36.000%	3.000?	35.108?	-15.495?	-0.123m	7.858%	6.814%
10.00%	7.469%	35.500%	1.500?	28.443?	-11.943?	-0.065m	6.155%	5.289%
0.00%	4.076%	35.000%	0.000?	18.435?	-6.776?	0.000m	3.554%	2.907%

Chord Data

Luff LL : 10.7979m
 Leech : 10.1333m
 Luff Perpendicular : 4.3300m
 Clew Height : 0.1608m
 Headboard width : 0.0350m

Fanned Foot Curve Depths

25.0% 50.0% 75.0%
 0.0904m 0.1288m 0.0914m

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.020m	0.020m	0.020m
Zone: 1/b	0.020m	0.020m	0.020m
Zone: 2/a	0.020m	0.020m	0.020m
Zone: 2/b	0.020m	0.020m	0.020m
Zone: 3	0.020m	0.020m	0.020m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	4.64
Radial/Vertical	95.65
Bi-Radial Split	6.95

Materials

Material	Area (m ²)	Panels
Material 1	23.15	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1b\1,1b\2,1b\3,1b\4,1b\5 1b\6,1b\7,1b\8,1b\9,1b\10 2\1,2\2,2\3,2\4,2b\1 2b\2,2b\3,2b\4,3\1,3\2 3\3,3\4,3\5,3\6

