

Genoa: 5000108 James headsail tri radial R3.des

Design Info
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Design File:
F:\Dropbox (个人)\Fareast Sails\2021\5000108 James\5000108 James headsail tri radial R3.des

Initial Design Date: 15/1/2021
Boat:

Comments:

Client:

Design Data
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Genoa

Measurements

Luff geodesic: 10.800m
 Leech geodesic: 10.202m
 Foot geodesic: 4.817m
 Headboard width: 0.040m
 Luff perpendicular (HLP): 4.560m
 Upper width (HUW): 0.511m
 Three-quarter width (HTW): 1.001m
 Half width (HHW): 2.099m
 Quarter width (HQW): 3.321m
 Foot median: 10.397m
 ORC Headsail area: 23.623m?
 IRC Headsail area: 23.532m?
 Surface area: 23.876m?
 Forestay height: 11.200m
 J: 3.800m

Luff Curve

		Fanned Luff (@ 5.00% [0.239m])	Before BSeam
10.798m,	0.000m	100% (10.798m) :	-0.000m 0.000m
9.901m,	0.036m	90% (9.717m) :	-0.039m -0.012m
8.908m,	0.066m	80% (8.640m) :	-0.072m -0.020m
8.035m,	0.081m	70% (7.559m) :	-0.088m -0.015m
7.019m,	0.087m	60% (6.479m) :	-0.088m -0.002m
5.373m,	0.076m	50% (5.399m) :	-0.081m 0.014m
3.509m,	0.052m	40% (4.320m) :	-0.068m 0.030m
1.825m,	0.026m	30% (3.239m) :	-0.053m 0.041m
0.000m,	0.000m	20% (2.160m) :	-0.037m 0.041m
		10% (1.079m) :	-0.020m 0.023m
		0% (0.000m) :	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	9.700%	8.475%
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%	8.437%
40.00%	11.477%	37.000%	6.000?	39.050?	-18.601?	-0.197m	9.196%	8.081%
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%

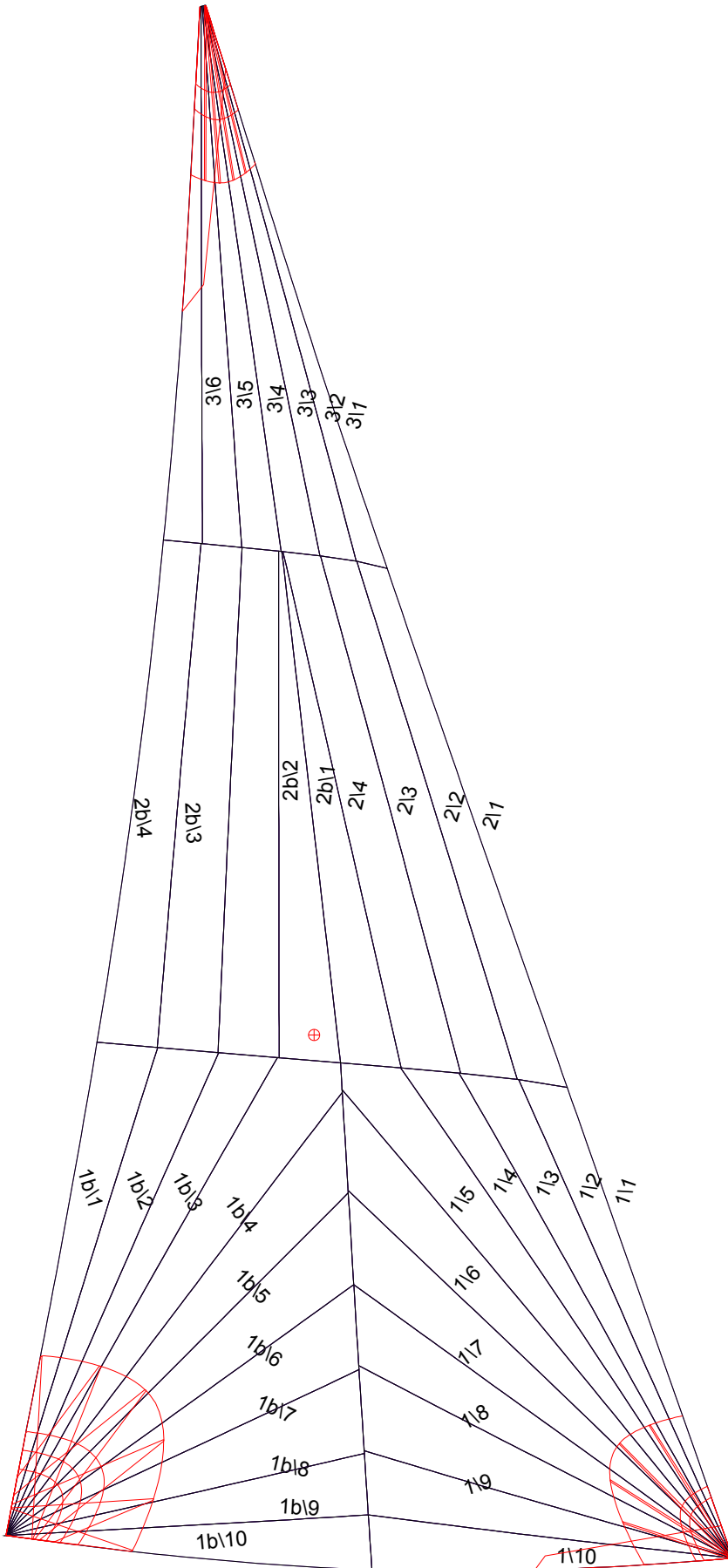
Chord Data

Luff LL : 10.7979m
 Leech : 10.1608m
 Luff Perpendicular : 4.4821m
 Clew Height : 0.1500m
 Headboard width : 0.0400m

Fanned Foot Curve Depths

25.0%	50.0%	75.0%
0.0891m	0.1274m	0.0905m

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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	4.79
Radial/Vertical	96.49
Bi-Radial Split	6.95

Materials

Material	Area (m ²)	Panels
Material 1	23.93	1l1, 1l2, 1l3, 1l4, 1l5 1l6, 1l7, 1l8, 1l9, 1l10 1b1, 1b2, 1b3, 1b4, 1b5 1b6, 1b7, 1b8, 1b9, 1b10 2l1, 2l2, 2l3, 2l4, 2b1 2b2, 2b3, 2b4, 3r1, 3r2 3r3, 3r4, 3r5, 3r6