

Genoa: 7001009 Torodd HeadsailV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001009 Torodd\70

Initial Design Date: 19/10/2023
Boat:

Comments:

Client:

Design Data
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Genoa

Measurements

Luff geodesic: 13.900m
 Leech geodesic: 13.290m
 Foot geodesic: 4.745m
 Headboard width: 0.033m
 Luff perpendicular (HLP): 4.550m
 Upper width (HUW): 0.551m
 Three-quarter width (HTW): 1.083m
 Half width (HHW): 2.203m
 Quarter width (HQW): 3.371m
 Foot median: 13.502m
 ORC Headsail area: 31.146m?
 IRC Headsail area: 31.078m?
 Surface area: 31.213m?
 Forestay height: 14.210m
 J: 4.200m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	1.500m	-0.070m	160.449?	46.114m	10.870m	
62.000%	1.600m	-0.110m	160.449?	110.148m	8.219m	
42.000%	1.600m	-0.112m	160.449?	174.183m	5.568m	
22.000%	1.400m	-0.072m	160.449?	238.218m	2.916m	

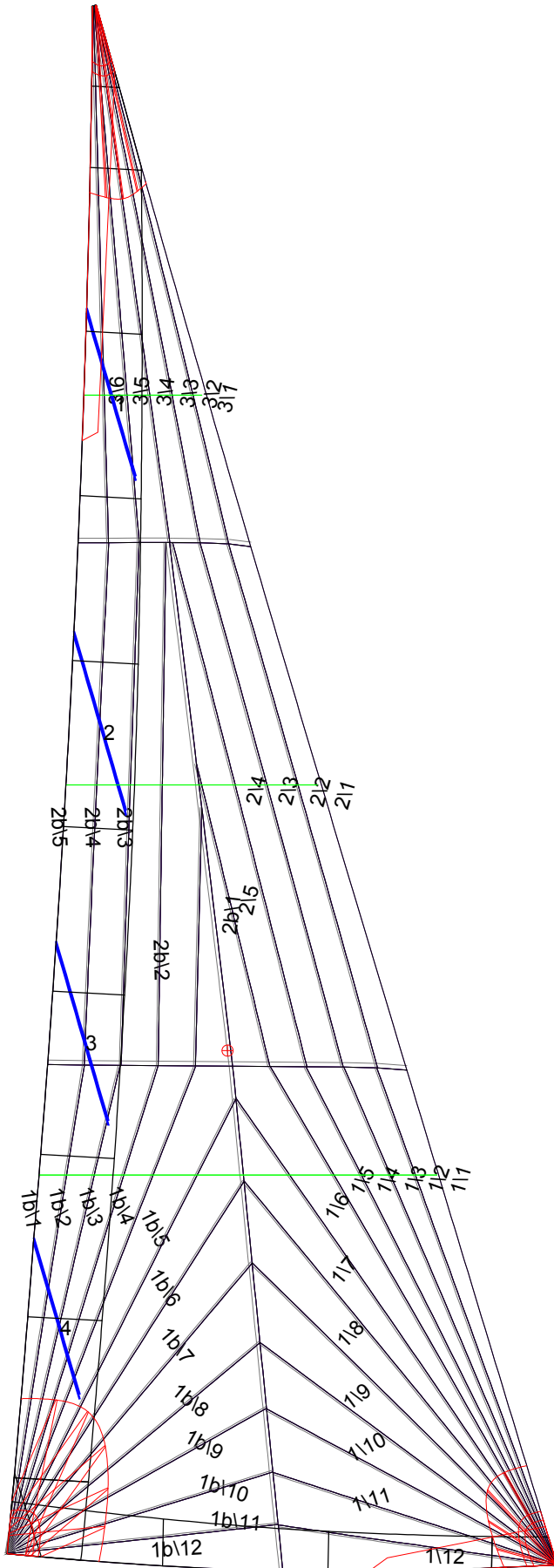
Draft Stripes

1, Luff: 3.486m ; Leech: 3.261m ;
 2, Luff: 6.971m ; Leech: 6.601m ;
 3, Luff: 10.447m ; Leech: 9.928m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.235m])	Before BSeam
13.899m,	0.000m	100% (13.899m) :	0.000m -0.000m
12.744m,	0.035m	90% (12.508m) :	-0.036m -0.003m
11.466m,	0.063m	80% (11.120m) :	-0.063m -0.000m
10.342m,	0.077m	70% (9.729m) :	-0.077m 0.007m
9.034m,	0.083m	60% (8.340m) :	-0.080m 0.017m
6.916m,	0.072m	50% (6.950m) :	-0.075m 0.026m
4.517m,	0.049m	40% (5.560m) :	-0.064m 0.032m
2.349m,	0.025m	30% (4.170m) :	-0.050m 0.032m
0.000m,	0.000m	20% (2.780m) :	-0.034m 0.028m
		10% (1.389m) :	-0.018m 0.018m
		0% (0.000m) :	0.000m 0.000m

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.030m	0.016m	0.038m
Zone: 1/b	0.030m	0.016m	0.038m
Zone: 2/a	0.030m	0.016m	0.038m
Zone: 2/b	0.030m	0.016m	0.038m
Zone: 3	0.030m	0.016m	0.038m
Cover 1	0.025m	0.025m	0.025m
Cover 2	0.025m	0.025m	0.025m
Cover 3	0.000m	0.000m	0.000m
Cover 4	0.000m	0.000m	0.000m

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.070m	0.100m	0.070m
Cover 1	0.070m	0.070m	0.100m
Cover 2	0.000m	0.070m	0.070m
Cover 3	0.000m	0.070m	0.070m

Total Seam Lengths (m)

Horizontal	4.76
Radial/Vertical	137.96
Bi-Radial Split	9.22

Materials

Material	Area (m ²)	Panels
Material 1	31.28	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