

Genoa: 7001005 Kieran Headsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001005 Kieran\700

Initial Design Date: 31/10/2023
Boat:

Comments:

Client:

Design Data
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Genoa

Measurements

Luff geodesic:	10.110m
Leech geodesic:	9.922m
Foot geodesic:	5.274m
Headboard width:	0.030m
Luff perpendicular (HLP):	5.085m
LP Final(Inc Luff Rope):	5.100m
Foot(Inc Luff Rope):	5.289m
Head(Inc Luff Rope):	0.045m
Upper width (HUW):	0.620m
Three-quarter width (HTW):	1.210m
Half width (HHW):	2.430m
Quarter width (HQW):	3.735m
Foot median:	9.913m
ORC Headsail area:	25.178m?
IRC Headsail area:	25.142m?
Surface area:	25.586m?
Forestay height:	11.260m
J:	3.270m

Draft Stripes

1, Luff: 2.543m ; Leech: 2.435m ;
2, Luff: 5.074m ; Leech: 4.938m ;
3, Luff: 7.594m ; Leech: 7.395m ;

Luff Curve

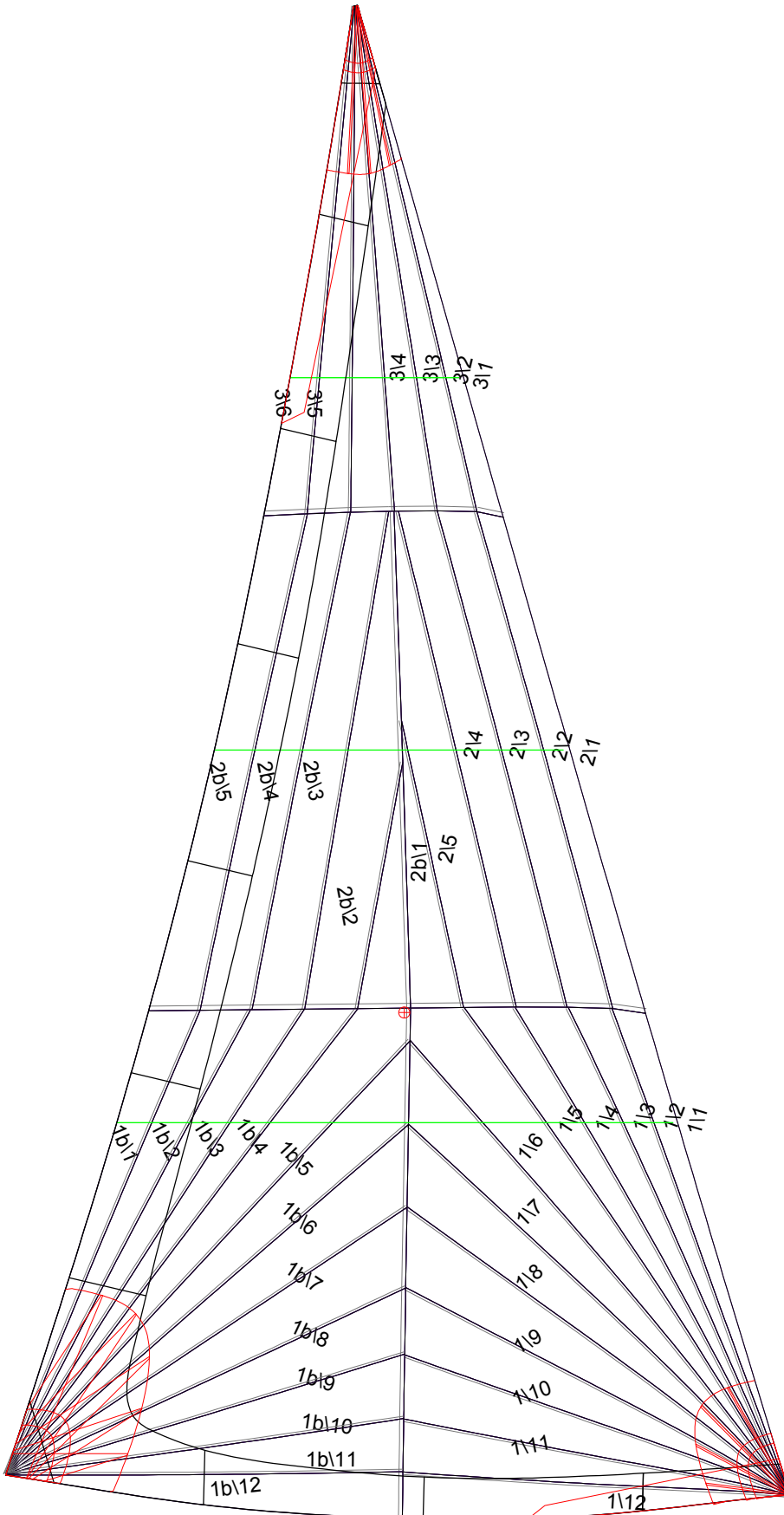
10.109m,	0.000m
7.582m,	0.041m
5.054m,	0.065m
2.527m,	0.054m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.256m])

100% (10.109m) :	-0.000m	-0.000m
90% (9.098m) :	-0.015m	0.022m
80% (8.087m) :	-0.031m	0.041m
70% (7.076m) :	-0.045m	0.058m
60% (6.065m) :	-0.057m	0.071m
50% (5.054m) :	-0.065m	0.079m
40% (4.043m) :	-0.068m	0.079m
30% (3.032m) :	-0.064m	0.072m
20% (2.022m) :	-0.049m	0.057m
10% (1.009m) :	-0.027m	0.033m
0% (0.000m) :	0.000m	0.000m

Before BSeam

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.026m	0.016m	0.030m
Zone: 1/b	0.026m	0.016m	0.030m
Zone: 2/a	0.026m	0.016m	0.030m
Zone: 2/b	0.026m	0.016m	0.030m
Zone: 3	0.026m	0.016m	0.030m
Cover 1	0.025m	0.025m	0.025m
Cover 2	0.000m	0.000m	0.000m
Cover 3	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	0.000m	0.070m	0.070m
Cover 2	0.000m	0.070m	0.070m

Total Seam Lengths (m)

Horizontal	5.17
Radial/Vertical	113.11
Bi-Radial Split	6.86

Materials

Material	Area (m ²)	Panels
Material 1	25.54	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