

Genoa: 8001013 Kenneth Malo 106 HeadsailV1.des

Design Info

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Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8001013 Kenneth

Initial Design Date: 5/11/2024

Boat:

Malo 106

Client:

Comments:

Design Data

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Genoa

Measurements

Luff geodesic:	13.720m
Leech geodesic:	13.081m
Foot geodesic:	5.714m
Headboard width:	0.040m
Luff perpendicular (HLP):	5.441m
Upper width (HUW):	0.581m
Three-quarter width (HTW):	1.164m
Half width (HHW):	2.519m
Quarter width (HQW):	3.951m
Foot median:	13.260m
ORC Headsail area:	35.731m?
IRC Headsail area:	35.614m?
Surface area:	35.891m?
Forestay height:	14.300m
J:	4.030m

Draft Stripes

1, Luff: 3.444m ; Leech: 3.057m ;
2, Luff: 6.887m ; Leech: 6.403m ;
3, Luff: 10.317m ; Leech: 9.714m ;

Luff Curve

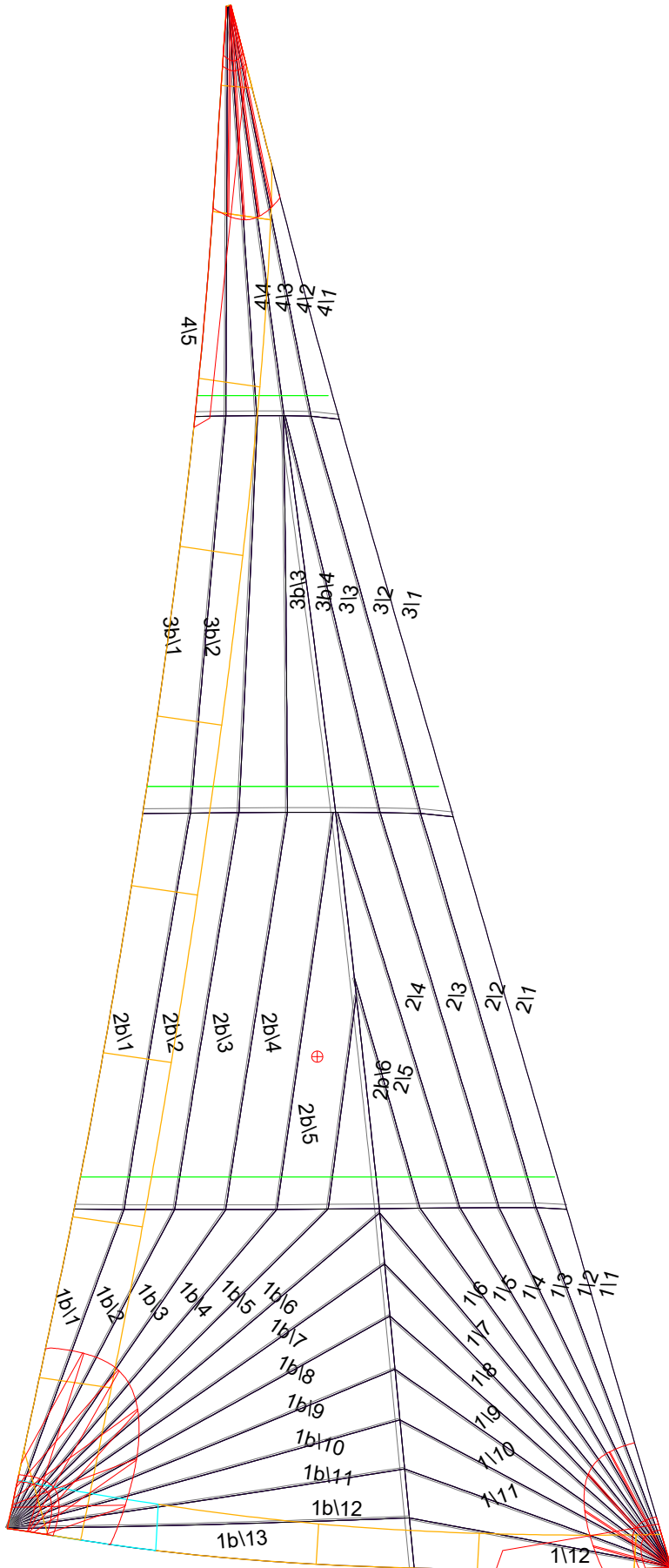
13.717m,	0.000m
12.577m,	0.046m
11.317m,	0.084m
10.207m,	0.103m
8.917m,	0.111m
6.826m,	0.097m
4.458m,	0.066m
2.319m,	0.033m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.281m])

100% (13.717m) :	-0.000m	-0.000m
90% (12.345m) :	-0.053m	-0.022m
80% (10.976m) :	-0.096m	-0.035m
70% (9.603m) :	-0.113m	-0.022m
60% (8.231m) :	-0.111m	0.004m
50% (6.859m) :	-0.100m	0.025m
40% (5.487m) :	-0.083m	0.037m
30% (4.115m) :	-0.063m	0.041m
20% (2.744m) :	-0.042m	0.035m
10% (1.371m) :	-0.022m	0.019m
0% (0.000m) :	0.000m	0.000m

Before BSeam

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.040m	0.015m	0.040m
Zone: 1/b	0.040m	0.015m	0.040m
Zone: 2/a	0.040m	0.015m	0.040m
Zone: 2/b	0.040m	0.015m	0.040m
Zone: 3/a	0.040m	0.015m	0.040m
Zone: 3/b	0.040m	0.015m	0.040m
Zone: 4	0.040m	0.015m	0.040m
Cover 1	0.025m	0.025m	0.025m
Cover 2	0.000m	0.000m	0.000m
Cover 3	0.000m	0.000m	0.000m
Cover 4	0.025m	0.025m	0.025m

Edge Excesses

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

Total Seam Lengths (m)

Horizontal	8.41
Radial/Vertical	137.61
Bi-Radial Split	10.17

Materials

Material	Area (m ²)	Panels
Material 1	35.96	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\12,1b\13 2\1,2\2,2\3,2\4,2\5 2b\6,2b\5,2b\4,2b\3,2b\2 2b\1,3\1,3\2,3\3,3b\4 3b\3,3b\2,3b\1,4\1,4\2 4\3,4\4,4\5