

Genoa: 7000902 Doug Hanks headsailV2.des

Design Info

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Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confrimed\7000902 Doug\7000

Initial Design Date: 14/9/2023

Boat:

Comments:

Client:

Design Data

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Genoa

Measurements

Luff geodesic:	10.100m
Leech geodesic:	9.400m
Foot geodesic:	3.400m
Headboard width:	0.050m
Luff perpendicular (HLP):	3.160m
Upper width (HUW):	0.373m
Three-quarter width (HTW):	0.707m
Half width (HHW):	1.442m
Quarter width (HQW):	2.264m
Foot median:	9.740m
ORC Headsail area:	15.269m?
IRC Headsail area:	15.250m?
Surface area:	15.407m?
Forestay height:	10.000m
J:	3.150m

Reefing Points

1, Luff: 1.375m ; Leech: 1.600m ; Offset: 0.000m ; Number Eyelets: 4

Draft Stripes

1, Luff: 3.356m ; Leech: 2.930m ;
2, Luff: 6.688m ; Leech: 6.104m ;

Luff Slides

1, Position: 0.450m
2, Position: 1.173m
3, Position: 1.896m
4, Position: 2.619m
5, Position: 3.342m
6, Position: 4.065m
7, Position: 4.788m
8, Position: 5.512m
9, Position: 6.235m
10, Position: 6.958m
11, Position: 7.681m
12, Position: 8.404m
13, Position: 9.127m
14, Position: 9.850m

Luff Curve

10.098m,	0.000m
7.574m,	0.061m
5.049m,	0.081m
2.525m,	0.061m
0.000m,	0.000m

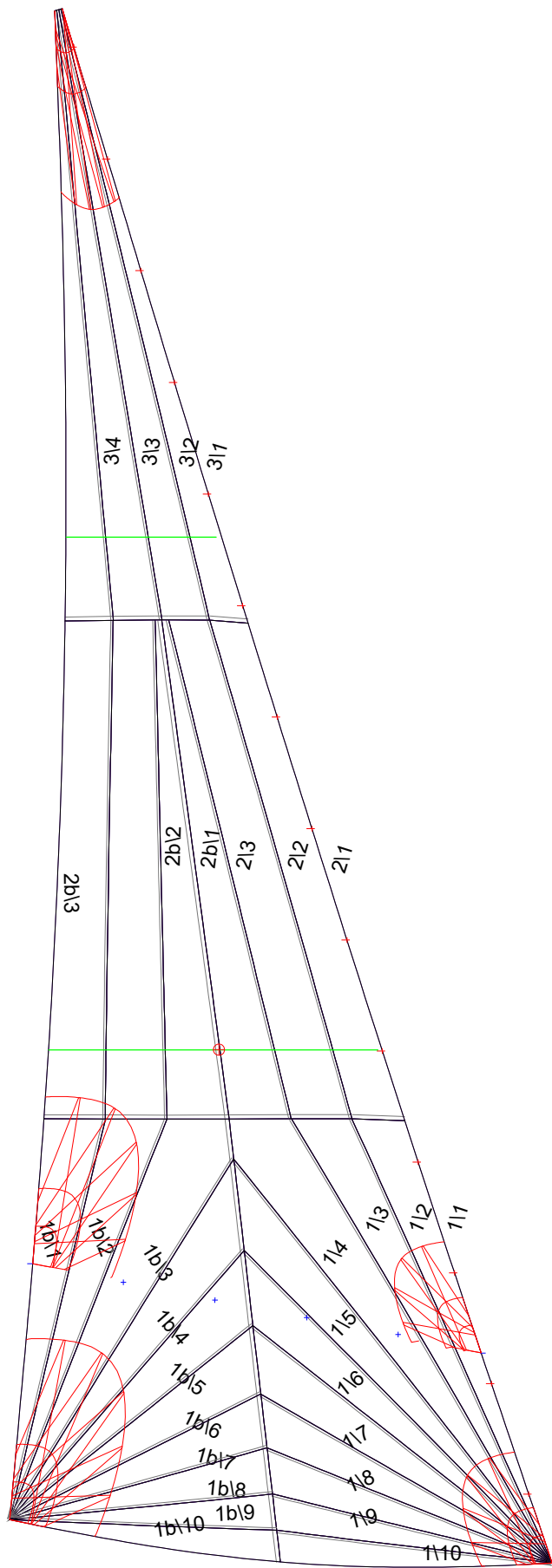
Fanned Luff (@ 5.00% [0.168m])

100% (10.098m) :	-0.000m
90% (9.088m) :	-0.023m
80% (8.079m) :	-0.048m
70% (7.069m) :	-0.067m
60% (6.059m) :	-0.079m
50% (5.049m) :	-0.084m
40% (4.039m) :	-0.083m
30% (3.029m) :	-0.074m
20% (2.020m) :	-0.056m
10% (1.008m) :	-0.029m
0% (0.000m) :	0.000m

Before BSeam

-0.000m
-0.000m
-0.004m
-0.007m
-0.007m
-0.007m
-0.007m
-0.007m
-0.005m
-0.001m
0.000m

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Seam Allowances			
	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.025m
Zone: 1/b	0.025m	0.015m	0.025m
Zone: 2/a	0.025m	0.015m	0.025m
Zone: 2/b	0.025m	0.015m	0.025m
Zone: 3	0.025m	0.015m	0.025m

Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	3.52
Radial/Vertical	65.35
Bi-Radial Split	6.08

Materials

Material	Area (m²)	Panels
Material 1	15.44	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\3,2b\1,2b\2 2b\3,3\1,3\2,3\3,3\4