

Genoa: 8000310 Robin Sun Odyssey 45 DS headsail.des

Design Info

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Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000310 Robin Sun

Initial Design Date: 16/3/2024

Boat:

Client:

Comments:

Design Data

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Genoa

Measurements

Luff geodesic:	15.642m
Leech geodesic:	15.056m
Foot geodesic:	6.545m
Headboard width:	0.045m
Luff perpendicular (HLP):	6.278m
Upper width (HUW):	0.707m
Three-quarter width (HTW):	1.399m
Half width (HHW):	2.911m
Quarter width (HQW):	4.559m
Foot median:	15.193m
ORC Headsail area:	47.232m?
IRC Headsail area:	47.107m?
Surface area:	47.439m?
Forestay height:	16.540m
J:	4.650m

Draft Stripes

1, Luff: 3.926m ; Leech: 3.607m ;
2, Luff: 7.851m ; Leech: 7.432m ;
3, Luff: 11.762m ; Leech: 11.210m ;

Luff Curve

15.639m,	0.000m
14.339m,	0.053m
12.902m,	0.096m
11.637m,	0.118m
10.166m,	0.126m
7.783m,	0.111m
5.083m,	0.075m
2.643m,	0.038m
0.000m,	0.000m

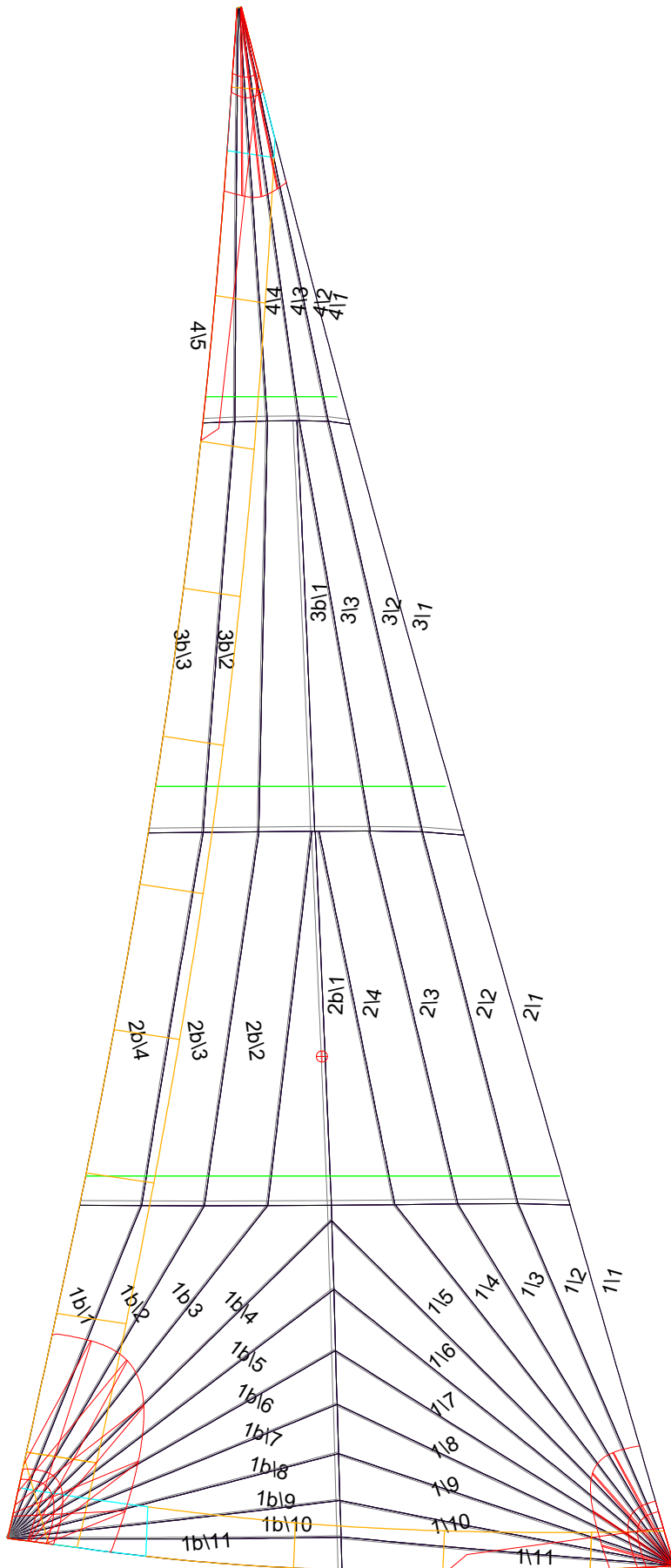
Fanned Luff (@ 5.00% [0.322m])

100% (15.639m) :	0.000m
90% (14.075m) :	-0.057m
80% (12.513m) :	-0.100m
70% (10.948m) :	-0.122m
60% (9.384m) :	-0.125m
50% (7.820m) :	-0.114m
40% (6.256m) :	-0.095m
30% (4.692m) :	-0.073m
20% (3.129m) :	-0.049m
10% (1.563m) :	-0.025m
0% (0.000m) :	0.000m

Before BSeam

0.000m
-0.004m
-0.002m
0.008m
0.023m
0.038m
0.047m
0.047m
0.040m
0.024m
0.000m

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.038m	0.015m	0.045m
Zone: 1/b	0.038m	0.015m	0.045m
Zone: 2/a	0.038m	0.015m	0.045m
Zone: 2/b	0.038m	0.015m	0.045m
Zone: 3/a	0.038m	0.015m	0.045m
Zone: 3/b	0.038m	0.015m	0.045m
Zone: 4	0.038m	0.015m	0.045m
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	9.75
Radial/Vertical	131.41
Bi-Radial Split	11.40

Materials

Material	Area (m ²)	Panels
Material 1	47.49	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1b\1,1b\2,1b\3,1b\4 1b\5,1b\6,1b\7,1b\8,1b\9 1b\10,1b\11,2\1,2\2,2\3 2\4,2b\1,2b\2,2b\3,2b\4 3\1,3\2,3\3,3b\1,3b\2 3b\3,4\1,4\2,4\3,4\4 4\5