

# Genoa: 8000310 Robin Sun Odyssey 45 DS headsailV1.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:

Comments:

Client:

Design Data  
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Genoa

## Measurements

Luff geodesic:	15.642m
Leech geodesic:	15.142m
Foot geodesic:	7.019m
Headboard width:	0.045m
Luff perpendicular (HLP):	6.742m
Upper width (HUW):	0.768m
Three-quarter width (HTW):	1.522m
Half width (HHW):	3.155m
Quarter width (HQW):	4.918m
Foot median:	15.188m
ORC Headsail area:	50.966m?
IRC Headsail area:	50.836m?
Surface area:	51.181m?
Forestay height:	16.540m
J:	4.650m

## Draft Stripes

1, Luff: 3.926m ; Leech: 3.636m ;  
2, Luff: 7.851m ; Leech: 7.484m ;  
3, Luff: 11.762m ; Leech: 11.277m ;

## Luff Curve

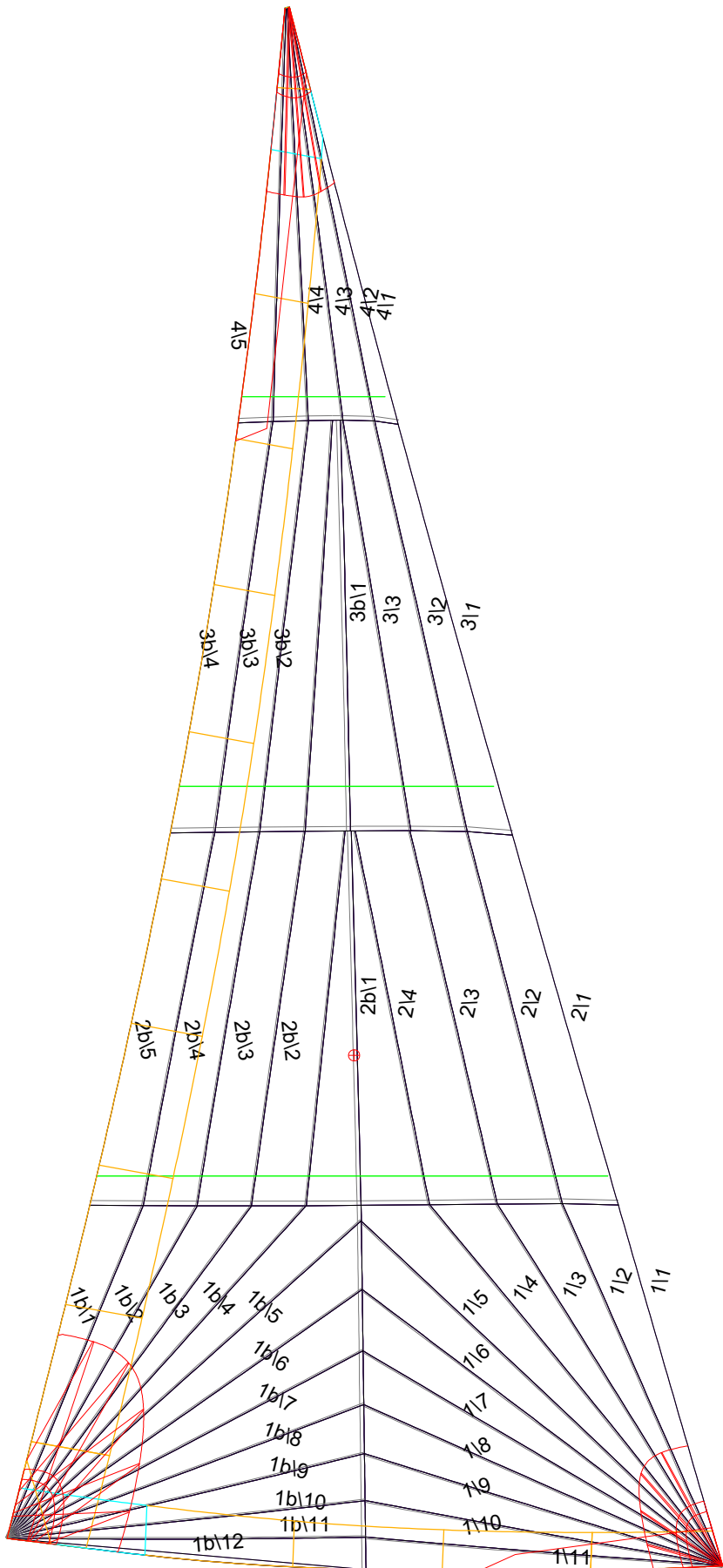
15.639m,	0.000m
14.339m,	0.053m
12.902m,	0.096m
11.637m,	0.118m
10.166m,	0.126m
7.783m,	0.111m
5.083m,	0.075m
2.643m,	0.038m
0.000m,	0.000m

## Fanned Luff (@ 5.00% [0.346m])

100% (15.639m) :	0.000m	-0.000m
90% (14.075m) :	-0.056m	0.000m
80% (12.513m) :	-0.099m	0.005m
70% (10.948m) :	-0.120m	0.017m
60% (9.384m) :	-0.124m	0.033m
50% (7.820m) :	-0.113m	0.048m
40% (6.256m) :	-0.095m	0.057m
30% (4.692m) :	-0.072m	0.055m
20% (3.129m) :	-0.048m	0.046m
10% (1.563m) :	-0.025m	0.027m
0% (0.000m) :	0.000m	0.000m

## Before BSeam

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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	10.52
Radial/Vertical	146.72
Bi-Radial Split	11.40

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	53.84	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\11,1b\12,2\1,2\2 2\3,2\4,2b\1,2b\2,2b\3 2b\4,2b\5,3\1,3\2,3\3 3b\1,3b\2,3b\3,3b\4,4\1 4\2,4\3,4\4,4\5