

# Genoa: 5000117 Kim headsail.des

## Design Info

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## Design File:

F:\Dropbox (个人)\Fareast Sails\2021\5000117 Kim\5000117 Kim headsail.des

Initial Design Date: 20/1/2021  
Boat:

Comments:

Client:

## Design Data

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## Genoa

### Measurements

Luff geodesic:	11.970m
Leech geodesic:	11.500m
Foot geodesic:	3.500m
Headboard width:	0.035m
Luff perpendicular (HLP):	3.370m
Upper width (HUW):	0.370m
Three-quarter width (HTW):	0.725m
Half width (HHW):	1.547m
Quarter width (HQW):	2.450m
Foot median:	11.724m
ORC Headsail area:	19.285m?
IRC Headsail area:	19.210m?
Surface area:	19.382m?
Forestay height:	11.900m
J:	3.700m

### Luff Curve

11.968m,	0.000m
10.973m,	0.041m
9.873m,	0.073m
8.905m,	0.090m
7.779m,	0.097m
5.956m,	0.085m
3.890m,	0.058m
2.023m,	0.029m
0.000m,	0.000m

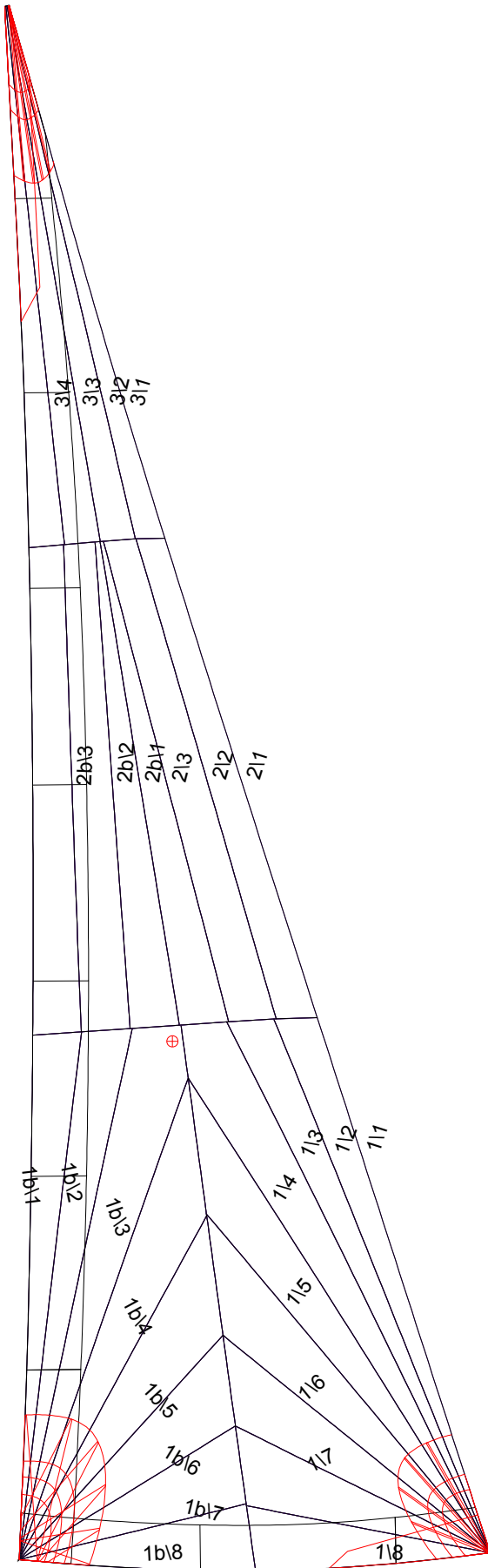
### Fanned Luff (@ 5.00% [0.174m])

100% (11.968m) :	0.000m
90% (10.769m) :	-0.043m
80% (9.576m) :	-0.079m
70% (8.378m) :	-0.095m
60% (7.181m) :	-0.095m
50% (5.984m) :	-0.086m
40% (4.788m) :	-0.072m
30% (3.590m) :	-0.055m
20% (2.394m) :	-0.038m
10% (1.196m) :	-0.020m
0% (0.000m) :	0.000m

### Before BSeam

-0.000m
-0.022m
-0.039m
-0.040m
-0.030m
-0.015m
0.001m
0.014m
0.018m
0.011m
0.000m

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## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.015m	0.038m
Zone: 1/b	0.038m	0.015m	0.038m
Zone: 2/a	0.038m	0.015m	0.038m
Zone: 2/b	0.038m	0.015m	0.038m
Zone: 3	0.038m	0.015m	0.038m
Cover 1	0.025m	0.025m	0.025m
Cover 2	0.025m	0.025m	0.025m

## Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.050m	0.100m	0.050m
Cover 1	0.050m	0.100m	0.050m

## Total Seam Lengths (m)

Horizontal	3.26
Radial/Vertical	70.17
Bi-Radial Split	7.89

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	19.42	1/1, 1/2, 1/3, 1/4, 1/5 1/6, 1/7, 1/8, 1b1, 1b2 1b3, 1b4, 1b5, 1b6, 1b7 1b8, 2/1, 2/2, 2/3, 2b1 2b2, 2b3, 3/1, 3/2, 3/3 3/4