

# Genoa: 5000112 Frank -2 Head.des

Design Info  
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Design File:  
F:\Dropbox (个人)\Fareast Sails\2021\5000112 Frank\5000112 Frank -2 Head.des

Initial Design Date: 29/1/2021  
Boat:

Comments:

Client:

Design Data  
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## Genoa

### Measurements

Luff geodesic: 15.062m  
 Leech geodesic: 14.414m  
 Foot geodesic: 8.484m  
 Headboard width: 0.040m  
 Luff perpendicular (HLP): 8.023m  
 Upper width (HUW): 0.927m  
 Three-quarter width (HTW): 1.854m  
 Half width (HHW): 3.872m  
 Quarter width (HQW): 5.945m  
 Foot median: 14.447m  
 ORC Headsail area: 59.200m?  
 IRC Headsail area: 59.066m?  
 Surface area: 59.967m?  
 Forestay height: 15.408m  
 J: 5.349m

### Luff Curve

		Fanned Luff (@ 5.00% [0.417m])	Before BSeam
15.059m,	0.000m	100% (15.059m) :	0.000m
13.808m,	0.051m	90% (13.552m) :	0.013m
12.424m,	0.092m	80% (12.050m) :	0.031m
11.205m,	0.114m	70% (10.542m) :	0.063m
9.789m,	0.122m	60% (9.036m) :	0.099m
7.494m,	0.107m	50% (7.530m) :	0.122m
4.894m,	0.073m	40% (6.024m) :	0.130m
2.545m,	0.036m	30% (4.518m) :	0.121m
0.000m,	0.000m	20% (3.013m) :	0.092m
		10% (1.505m) :	0.045m
		0% (0.000m) :	0.000m

### Section Data

Position	Camber	Draft	Twist	Entry	Exit	Roach	Fwd Camb	Aft Camb
100.00%	8.892%	41.484%	19.969?	26.952?	-11.648?	0.000m	6.950%	6.525%
80.00%	15.467%	42.559%	15.975?	54.529?	-22.483?	-0.171m	12.082%	11.252%
60.00%	16.201%	42.431%	11.982?	60.132?	-24.691?	-0.260m	12.463%	11.756%
39.99%	14.569%	41.720%	7.987?	58.054?	-22.096?	-0.261m	11.219%	10.557%
20.00%	11.607%	40.663%	3.994?	49.160?	-17.753?	-0.183m	9.027%	8.454%
10.00%	9.510%	40.221%	1.997?	41.215?	-14.909?	-0.108m	7.446%	6.960%
0.00%	7.098%	39.779%	0.000?	31.098?	-11.603?	0.000m	5.597%	5.230%

### Chord Data

Luff LL : 15.0590m  
 Leech : 14.2879m  
 Luff Perpendicular : 7.7678m  
 Clew Height : 0.3500m  
 Headboard width : 0.0400m

### Fanned Foot Curve Depths

25.0% 50.0% 75.0%  
 0.1359m 0.1932m 0.1443m

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## Seam Allowances

	Split	Radial	Cross
Zone: 1	0.000m	0.000m	0.080m
Zone: 2	0.000m	0.000m	0.080m
Cover 1	0.025m	0.025m	0.025m
Cover 2	0.025m	0.025m	0.025m

## Edge Excesses

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

## Total Seam Lengths (m)

Horizontal	28.10
Radial/Vertical	0.00
Bi-Radial Split	0.00

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	60.15	1\1,2\1,2\2,2\3,2\4 2\5,2\6

