

# Genoa: 8000805 Kjetil Gibsea 105 130%Headsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000805 Kjetil Gib

Initial Design Date: 22/8/2024  
Boat:  
Gibsea 105  
Client:

Comments:

Design Data  
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## Genoa

### Measurements

Luff geodesic: 11.355m  
Leech geodesic: 11.370m  
Foot geodesic: 6.350m  
Headboard width: 0.045m  
Luff perpendicular (HLP): 6.147m  
Upper width (HUW): 0.692m  
Three-quarter width (HTW): 1.385m  
Half width (HHW): 2.904m  
Quarter width (HQW): 4.508m  
Foot median: 11.108m  
ORC Headsail area: 33.853m?  
IRC Headsail area: 33.748m?  
Surface area: 34.091m?  
Forestay height: 13.000m  
J: 3.900m

### Luff Curve

11.353m, 0.000m  
10.409m, 0.038m  
9.366m, 0.070m  
8.448m, 0.086m  
7.380m, 0.092m  
5.650m, 0.081m  
3.690m, 0.055m  
1.919m, 0.027m  
0.000m, 0.000m

### Fanned Luff (@ 5.00% [0.310m])

100% (11.353m) : 0.000m  
90% (10.217m) : -0.043m  
80% (9.084m) : -0.074m  
70% (7.948m) : -0.089m  
60% (6.812m) : -0.090m  
50% (5.677m) : -0.082m  
40% (4.542m) : -0.069m  
30% (3.406m) : -0.053m  
20% (2.271m) : -0.036m  
10% (1.134m) : -0.018m  
0% (0.000m) : 0.000m

### Before BSeam

-0.000m  
-0.003m  
0.003m  
0.018m  
0.037m  
0.054m  
0.066m  
0.067m  
0.055m  
0.032m  
0.000m

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## Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.035m	0.015m	0.035m
Zone: 1/b	0.035m	0.015m	0.035m
Zone: 2/a	0.035m	0.015m	0.035m
Zone: 2/b	0.035m	0.015m	0.035m
Zone: 3	0.035m	0.015m	0.035m
Cover 1	0.025m	0.025m	0.025m
Cover 2	0.000m	0.000m	0.000m
Cover 3	0.000m	0.000m	0.000m
Cover 4	0.025m	0.025m	0.025m

## Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.070m	0.070m	0.100m
Cover 1	0.000m	0.070m	0.070m
Cover 2	0.000m	0.070m	0.070m
Cover 3	0.070m	0.100m	0.070m

## Total Seam Lengths (m)

Horizontal	6.08
Radial/Vertical	98.12
Bi-Radial Split	7.68

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 2	34.13	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1b\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 2b\4,3\1,3\2,3\3,3\4 3\5

