

# Genoa: 8000239 Nathan 75ft schooner Headsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000239 Nathan h

Initial Design Date: 6/3/2024  
Boat:

Comments:

Client:

Design Data  
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## Genoa

### Measurements

Luff geodesic: 11.674m  
 Leech geodesic: 11.454m  
 Foot geodesic: 10.461m  
 Headboard width: 0.061m  
 Luff perpendicular (HLP): 9.388m  
 Upper width (HUW): 1.117m  
 Three-quarter width (HTW): 2.228m  
 Half width (HHW): 4.566m  
 Quarter width (HQW): 6.975m  
 Foot median: 10.764m  
 ORC Headsail area: 54.027m?  
 IRC Headsail area: 53.894m?  
 Surface area: 55.913m?  
 Forestay height: 13.106m  
 J: 6.706m

### Luff Curve

11.673m, 0.000m  
 9.332m, 0.050m  
 6.993m, 0.068m  
 4.658m, 0.062m  
 2.327m, 0.039m  
 0.000m, 0.000m

Fanned Luff (@ 5.00% [0.514m])		Before BSeam
100% (11.673m) :	0.000m	0.000m
90% (10.504m) :	-0.025m	0.028m
80% (9.339m) :	-0.049m	0.056m
70% (8.171m) :	-0.064m	0.085m
60% (7.004m) :	-0.071m	0.109m
50% (5.836m) :	-0.072m	0.120m
40% (4.669m) :	-0.069m	0.117m
30% (3.501m) :	-0.061m	0.101m
20% (2.335m) :	-0.047m	0.076m
10% (1.165m) :	-0.026m	0.044m
0% (0.000m) :	0.000m	0.000m

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## Seam Allowances

	Split	Radial	Cross
Zone: 1	0.040m	0.040m	0.040m
Zone: 2	0.040m	0.040m	0.040m
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	43.60
Radial/Vertical	0.00
Bi-Radial Split	0.00

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	55.85	1\1,1\2,1\3,1\4,2\1 2\2,2\3,2\4,2\5,2\6

