

# Genoa: 8000708 William Lagoon 440 Headsail.des

Design Info  
=====

Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000708 William L

Initial Design Date: 22/7/2024  
Boat:  
Lagoon 440  
Client:

Comments:

Design Data  
=====

## Genoa

### Measurements

Luff geodesic:	16.434m
Leech geodesic:	14.130m
Foot geodesic:	6.000m
Headboard width:	0.055m
Luff perpendicular (HLP):	5.087m
Upper width (HUW):	0.541m
Three-quarter width (HTW):	1.061m
Half width (HHW):	2.294m
Quarter width (HQW):	3.654m
Foot median:	15.159m
ORC Headsail area:	39.575m?
IRC Headsail area:	39.416m?
Surface area:	39.879m?
Forestay height:	17.170m
J:	3.480m

### Draft Stripes

1, Luff: 4.123m ; Leech: 2.035m ;  
2, Luff: 8.245m ; Leech: 6.082m ;  
3, Luff: 12.353m ; Leech: 10.077m ;

### Luff Curve

16.430m,	0.000m
15.065m,	0.056m
13.555m,	0.102m
12.226m,	0.125m
10.680m,	0.134m
8.176m,	0.117m
5.340m,	0.080m
2.777m,	0.040m
0.000m,	0.000m

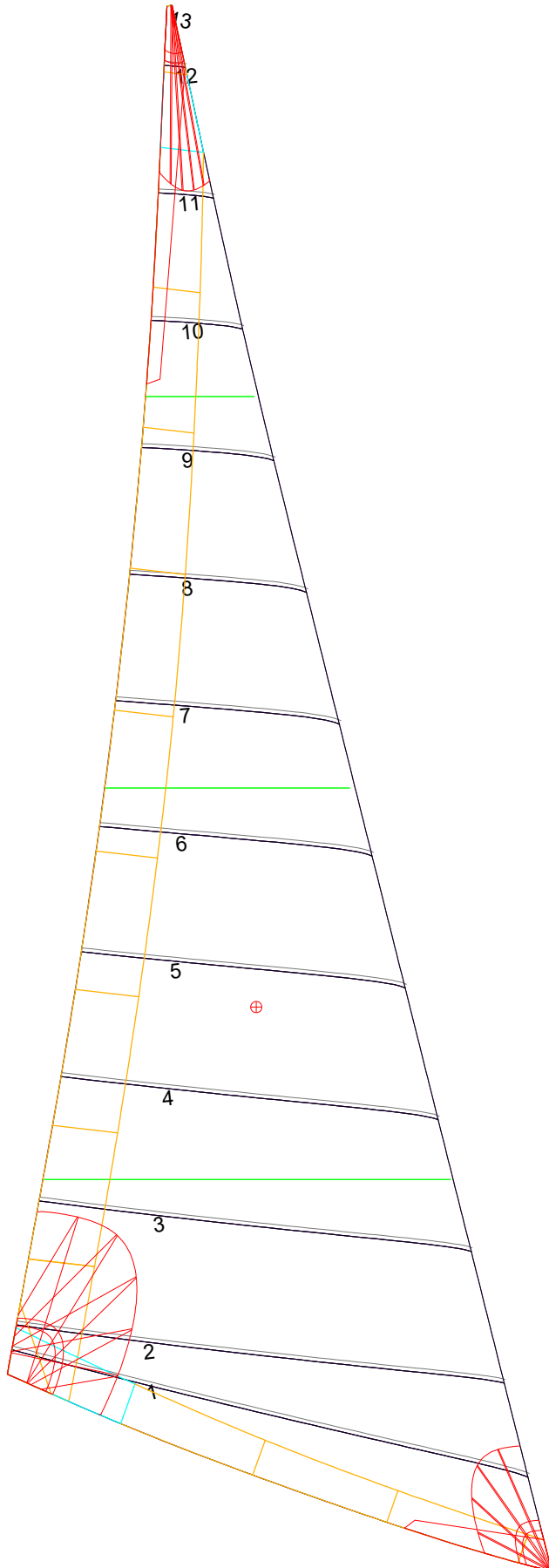
### Fanned Luff (@ 5.00% [0.278m])

100% (16.430m) :	0.000m
90% (14.789m) :	-0.067m
80% (13.146m) :	-0.124m
70% (11.503m) :	-0.148m
60% (9.859m) :	-0.147m
50% (8.216m) :	-0.133m
40% (6.573m) :	-0.111m
30% (4.930m) :	-0.084m
20% (3.286m) :	-0.056m
10% (1.643m) :	-0.028m
0% (0.000m) :	0.000m

### Before BSeam

0.000m
-0.031m
-0.050m
-0.037m
-0.007m
0.019m
0.035m
0.042m
0.038m
0.022m
0.000m

# Genoa: 8000708 William Lagoon 440 Headsail.des



## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1	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

Sail:	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	33.61
Radial/Vertical	0.00
Bi-Radial Split	0.00

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	39.99	1,2,3,4,5 6,7,8,9,10 11,12,13