

# Genoa: 8000508 Bernard Westerly 8.5 headsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000508 Bernard

Initial Design Date: 22/5/2024  
Boat:  
Westerly 8.5  
Client:

Comments:

Design Data  
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## Genoa

### Measurements

Luff geodesic:	10.850m
Leech geodesic:	10.520m
Foot geodesic:	5.820m
Headboard width:	0.035m
Luff perpendicular (HLP):	5.550m
Upper width (HUW):	0.645m
Three-quarter width (HTW):	1.284m
Half width (HHW):	2.657m
Quarter width (HQW):	4.090m
Foot median:	10.526m
ORC Headsail area:	29.422m?
IRC Headsail area:	29.353m?
Surface area:	29.893m?
Forestay height:	11.300m
J:	3.700m

### Draft Stripes

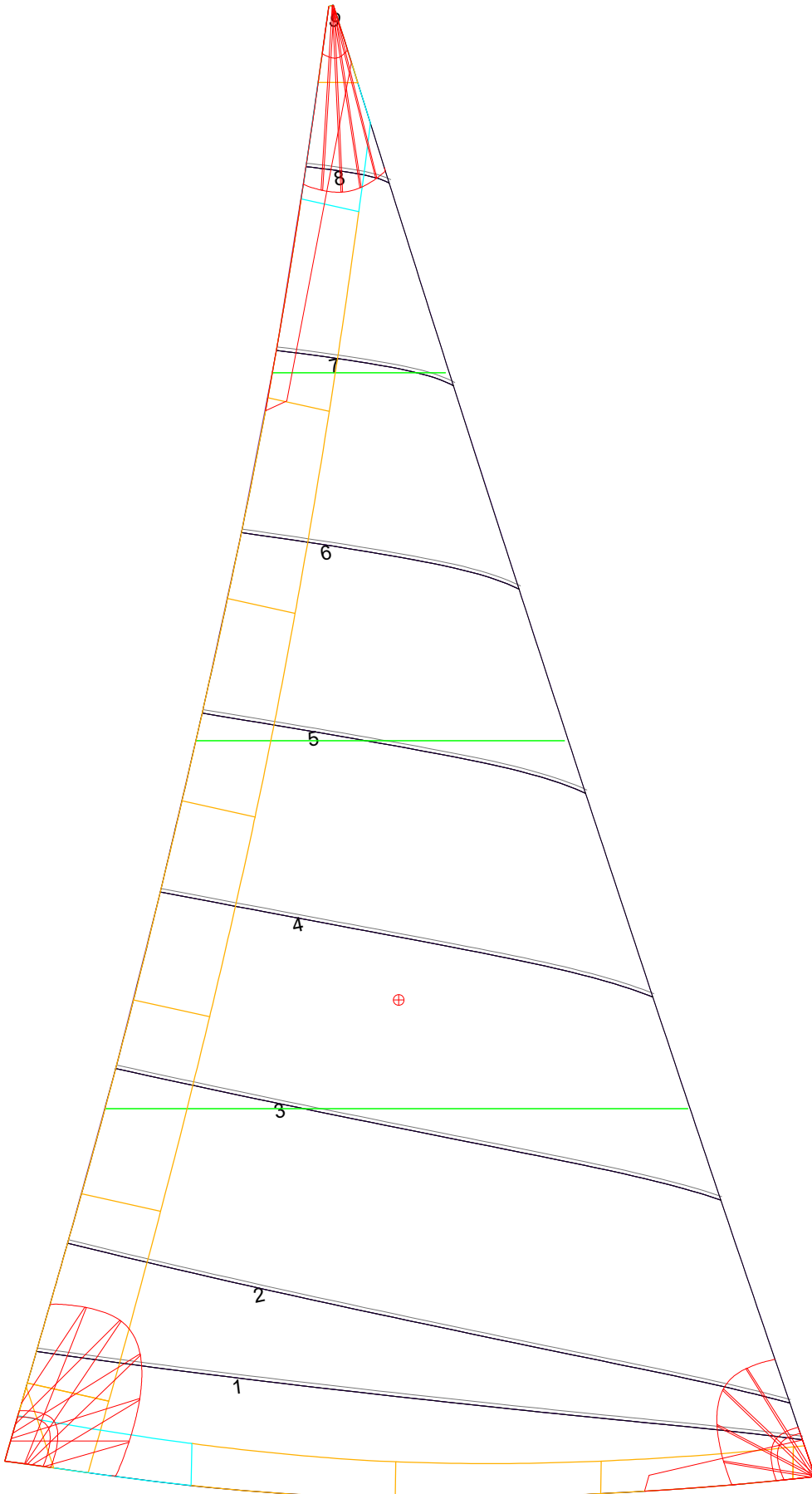
1, Luff: 2.727m ; Leech: 2.589m ;  
2, Luff: 5.445m ; Leech: 5.241m ;  
3, Luff: 8.154m ; Leech: 7.859m ;

### Luff Curve

10.849m,	0.000m
8.673m,	0.046m
6.499m,	0.064m
4.329m,	0.058m
2.163m,	0.036m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.284m])		Before BSeam
100% (10.849m) :	0.000m	0.000m
90% (9.763m) :	-0.023m	0.013m
80% (8.680m) :	-0.044m	0.025m
70% (7.594m) :	-0.059m	0.038m
60% (6.510m) :	-0.065m	0.052m
50% (5.424m) :	-0.065m	0.063m
40% (4.340m) :	-0.061m	0.066m
30% (3.254m) :	-0.053m	0.062m
20% (2.170m) :	-0.039m	0.048m
10% (1.084m) :	-0.021m	0.027m
0% (0.000m) :	0.000m	0.000m

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## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1	0.000m	0.000m	0.025m
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	26.16
Radial/Vertical	0.00
Bi-Radial Split	0.00

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	29.94	1,2,3,4,5 6,7,8,9