

Genoa: 8000614 Gordan Lagoon 50 Headsail.des

Design Info

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Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000614 Gordan L

Initial Design Date: 22/6/2024

Boat:

Lagoon 50

Client:

Comments:

Design Data

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Genoa

Measurements

Luff geodesic:	20.500m
Leech geodesic:	17.650m
Foot geodesic:	6.500m
Headboard width:	0.055m
Luff perpendicular (HLP):	5.298m
Upper width (HUW):	0.571m
Three-quarter width (HTW):	1.120m
Half width (HHW):	2.359m
Quarter width (HQW):	3.771m
Foot median:	18.912m
ORC Headsail area:	50.676m?
IRC Headsail area:	50.543m?
Surface area:	51.175m?
Forestay height:	19.780m
J:	6.150m

Draft Stripes

1, Luff: 5.091m ; Leech: 3.081m ;
2, Luff: 10.180m ; Leech: 7.929m ;
3, Luff: 15.255m ; Leech: 12.760m ;

Luff Curve

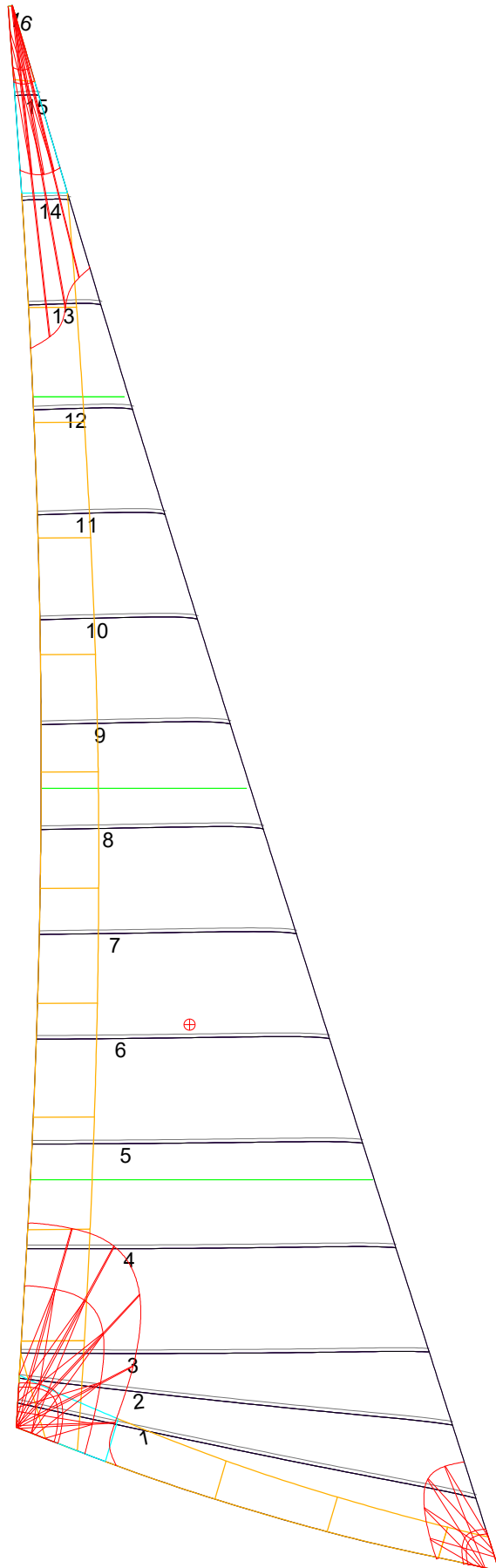
20.293m,	0.000m
18.606m,	0.051m
16.741m,	0.092m
15.100m,	0.114m
13.191m,	0.122m
10.098m,	0.107m
6.595m,	0.073m
3.430m,	0.036m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.299m])

100% (20.293m) :	-0.000m	-0.000m
90% (18.265m) :	-0.058m	-0.013m
80% (16.235m) :	-0.102m	-0.016m
70% (14.206m) :	-0.123m	-0.007m
60% (12.176m) :	-0.128m	0.009m
50% (10.147m) :	-0.118m	0.025m
40% (8.117m) :	-0.099m	0.038m
30% (6.088m) :	-0.077m	0.043m
20% (4.059m) :	-0.052m	0.040m
10% (2.028m) :	-0.027m	0.028m
0% (0.000m) :	0.000m	0.000m

Before BSeam

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1	0.045m	0.045m	0.045m
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	45.14
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	51.15	1,2,3,4,5 6,7,8,9,10 11,12,13,14,15 16