

# Genoa: 8000425 Jan-2 Sadler 25 MK III headsail.des

## Design Info

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## Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000425 Jan Sadl

Initial Design Date: 2/5/2024

Boat:

Sadler 25 MK III

Client:

Comments:

## Design Data

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### Genoa

#### Measurements

Luff geodesic:	8.890m
Leech geodesic:	8.177m
Foot geodesic:	4.419m
Headboard width:	0.035m
Luff perpendicular (HLP):	4.077m
Upper width (HUW):	0.459m
Three-quarter width (HTW):	0.908m
Half width (HHW):	1.917m
Quarter width (HQW):	2.983m
Foot median:	8.382m
ORC Headsail area:	17.532m <sup>2</sup>
IRC Headsail area:	17.476m <sup>2</sup>
Surface area:	17.719m <sup>2</sup>
Forestay height:	8.490m
J:	3.020m

#### Draft Stripes

1, Luff: 2.949m ; Leech: 2.480m ;  
2, Luff: 5.892m ; Leech: 5.276m ;

#### Luff Curve

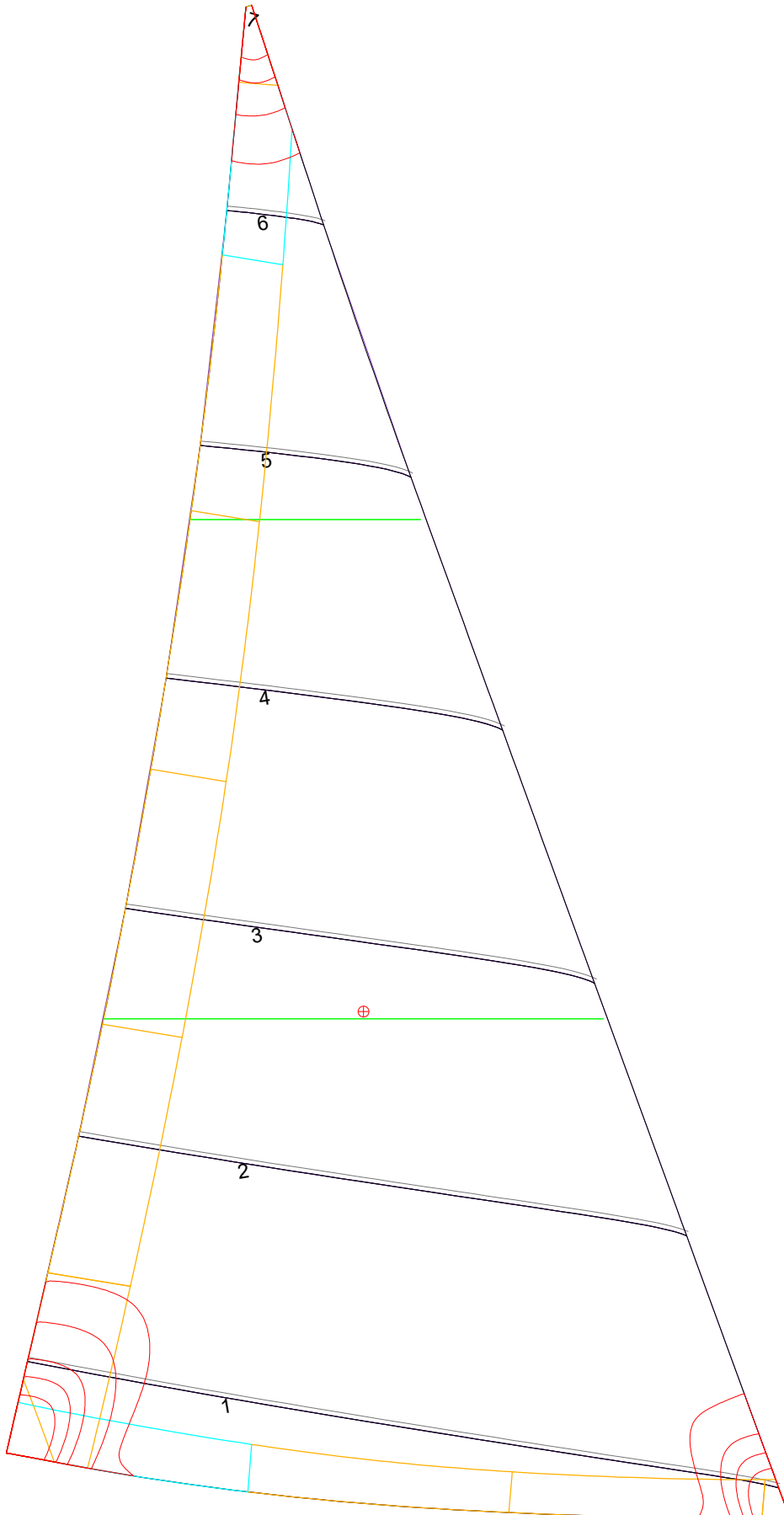
8.888m,	0.000m
8.150m,	0.030m
7.333m,	0.055m
6.614m,	0.067m
5.778m,	0.072m
4.423m,	0.063m
2.889m,	0.043m
1.502m,	0.021m
0.000m,	0.000m

#### Fanned Luff (@ 5.00% [0.217m])

100% (8.888m) :	0.000m	0.000m
90% (7.998m) :	-0.035m	-0.012m
80% (7.112m) :	-0.064m	-0.019m
70% (6.222m) :	-0.075m	-0.007m
60% (5.334m) :	-0.074m	0.013m
50% (4.444m) :	-0.066m	0.027m
40% (3.556m) :	-0.055m	0.035m
30% (2.667m) :	-0.041m	0.038m
20% (1.778m) :	-0.027m	0.033m
10% (0.888m) :	-0.014m	0.018m
0% (0.000m) :	0.000m	0.000m

#### Before BSeam

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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

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	14.36
Radial/Vertical	0.00
Bi-Radial Split	0.00

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	17.77	1,2,3,4,5 6,7