

Mainsail: 7000103 Vlad Main.des

Design Info
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Design File:
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Initial Design Date: 11/1/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 15.840m
Leech geodesic: 16.710m
Foot geodesic: 5.940m
Head geodesic: 0.160m
Upper width (MUW): 1.057m
Three-quarter width (MTW): 1.921m
Half width (MHW): 3.459m
Quarter width (MQW): 4.772m
Foot median: 16.234m
ORC Mainsail area: 52.307m?
Surface area: 53.385m?
Clew height: 0.205m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
86.198%	1.207m	0.175m	71.514?	13.650m	14.359m	Full
71.610%	2.200m	0.244m	71.514?	11.343m	11.929m	Full
55.115%	3.201m	0.239m	71.514?	8.736m	9.181m	Full
38.810%	4.106m	0.207m	71.514?	6.159m	6.465m	Full
20.187%	5.013m	0.113m	71.514?	3.216m	3.363m	Full

Reefing Points

1, Luff: 2.375m ; Leech: 2.493m ; Offset: 0.000m ; Number Eyelets: 0
2, Luff: 4.750m ; Leech: 4.980m ; Offset: 0.000m ; Number Eyelets: 0
3, Luff: 7.126m ; Leech: 7.466m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

1, Luff: 3.958m ; Leech: 3.979m ;
2, Luff: 7.918m ; Leech: 8.175m ;
3, Luff: 11.878m ; Leech: 12.387m ;

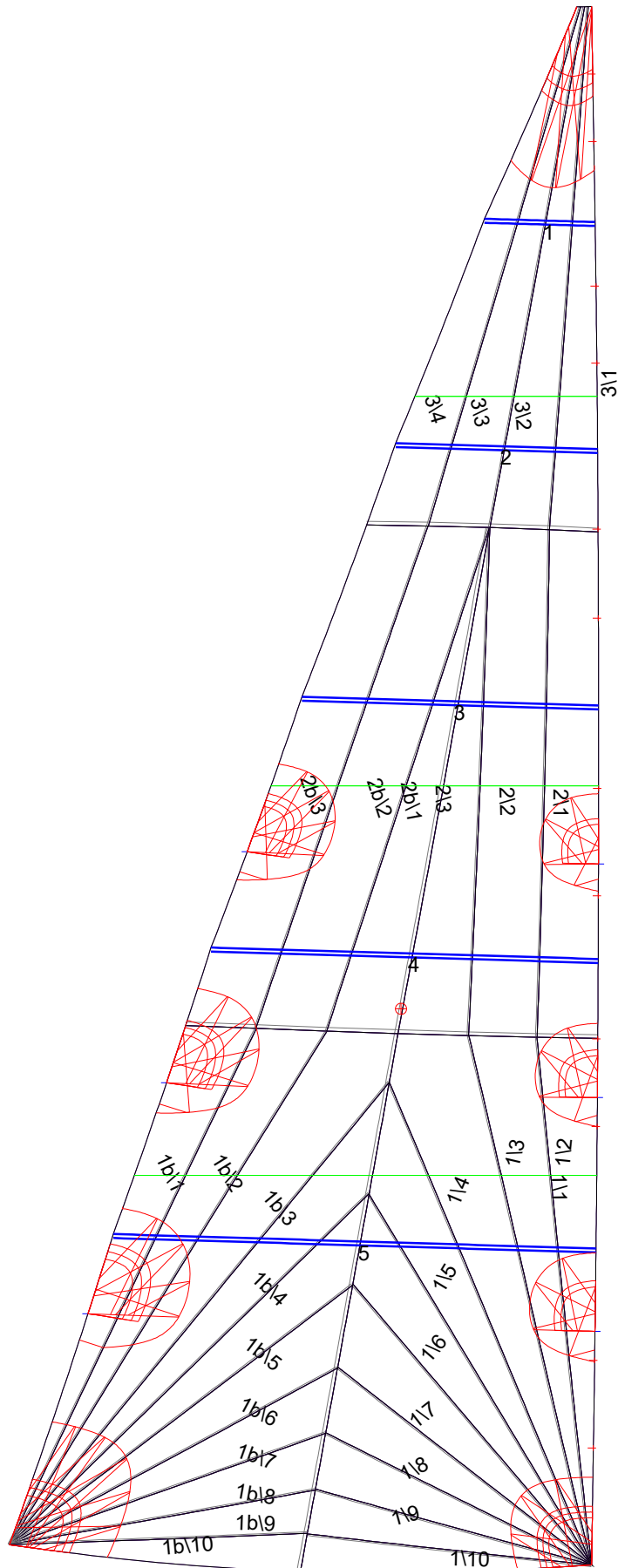
Luff Slides

1, Position: 1.188m
2, Position: 2.080m
3, Position: 4.455m
4, Position: 5.346m
5, Position: 6.800m
6, Position: 7.892m
7, Position: 9.623m
8, Position: 10.527m
9, Position: 12.215m
10, Position: 12.999m
11, Position: 14.468m
12, Position: 15.154m

Luff Curve

		Fanned Luff (@ 5.00% [0.296m])	Before BSeam
15.840m,	0.000m	100% (15.840m) :	0.000m
13.866m,	-0.033m	90% (14.256m) :	0.057m
11.880m,	-0.057m	80% (12.672m) :	0.110m
9.889m,	-0.069m	70% (11.088m) :	0.152m
7.920m,	-0.071m	60% (9.504m) :	0.177m
5.902m,	-0.066m	50% (7.920m) :	0.182m
3.960m,	-0.053m	40% (6.336m) :	0.168m
1.974m,	-0.030m	30% (4.752m) :	0.138m
0.000m,	0.000m	20% (3.168m) :	0.096m
		10% (1.584m) :	0.046m
		0% (0.000m) :	0.000m

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.035m	0.016m	0.038m
Zone: 1/b	0.035m	0.016m	0.038m
Zone: 2/a	0.035m	0.016m	0.038m
Zone: 2/b	0.035m	0.016m	0.038m
Zone: 3	0.035m	0.016m	0.038m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	6.86
Radial/Vertical	115.58
Bi-Radial Split	11.03

Materials

Material	Area (m ²)	Panels
Material 1	53.48	1/1,1/2,1/3,1/4,1/5 1/6,1/7,1/8,1/9,1/10 1b/1,1b/2,1b/3,1b/4,1b/5 1b/6,1b/7,1b/8,1b/9,1b/10 2/1,2/2,2/3,2b/1,2b/2 2b/3,3/1,3/2,3/3,3/4