

# Mainsail: 7000103 Vlad Main V1 big roach.des

## Design Info

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## Design File:

F:\Dropbox\Dropbox-20221019\Dropbox20221213\Dropbox\Fareast Sails\2023 Order\Need Confrim Order\7000103 V1

Initial Design Date: 11/1/2023

Boat:

Client:

Comments:

## Design Data

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### Main

#### Measurements

Luff geodesic:	15.840m
Leech geodesic:	16.650m
Foot geodesic:	5.940m
Head geodesic:	0.130m
Upper width (MUW):	1.587m
Three-quarter width (MTW):	2.853m
Half width (MHW):	4.571m
Quarter width (MQW):	5.488m
Foot median:	16.158m
ORC Mainsail area:	63.337m?
Surface area:	66.664m?
Clew height:	0.410m
Mast rake:	0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
87.000%	2.021m	1.008m	73.435?	13.767m	14.374m	Full
72.110%	3.440m	1.438m	73.435?	11.408m	11.914m	Full
55.715%	4.445m	1.435m	73.435?	8.813m	9.205m	Full
38.810%	5.165m	1.205m	73.435?	6.138m	6.412m	Full
20.187%	5.642m	0.714m	73.435?	3.192m	3.335m	Full

### Reefing Points

1, Luff: 2.374m ; Leech: 2.393m ; Offset: 0.000m ; Number Eyelets: 0  
2, Luff: 4.748m ; Leech: 4.790m ; Offset: 0.000m ; Number Eyelets: 0  
3, Luff: 7.123m ; Leech: 7.194m ; Offset: 0.000m ; Number Eyelets: 0

### Draft Stripes

1, Luff: 3.956m ; Leech: 3.607m ;  
2, Luff: 7.915m ; Leech: 7.681m ;  
3, Luff: 11.875m ; Leech: 11.853m ;

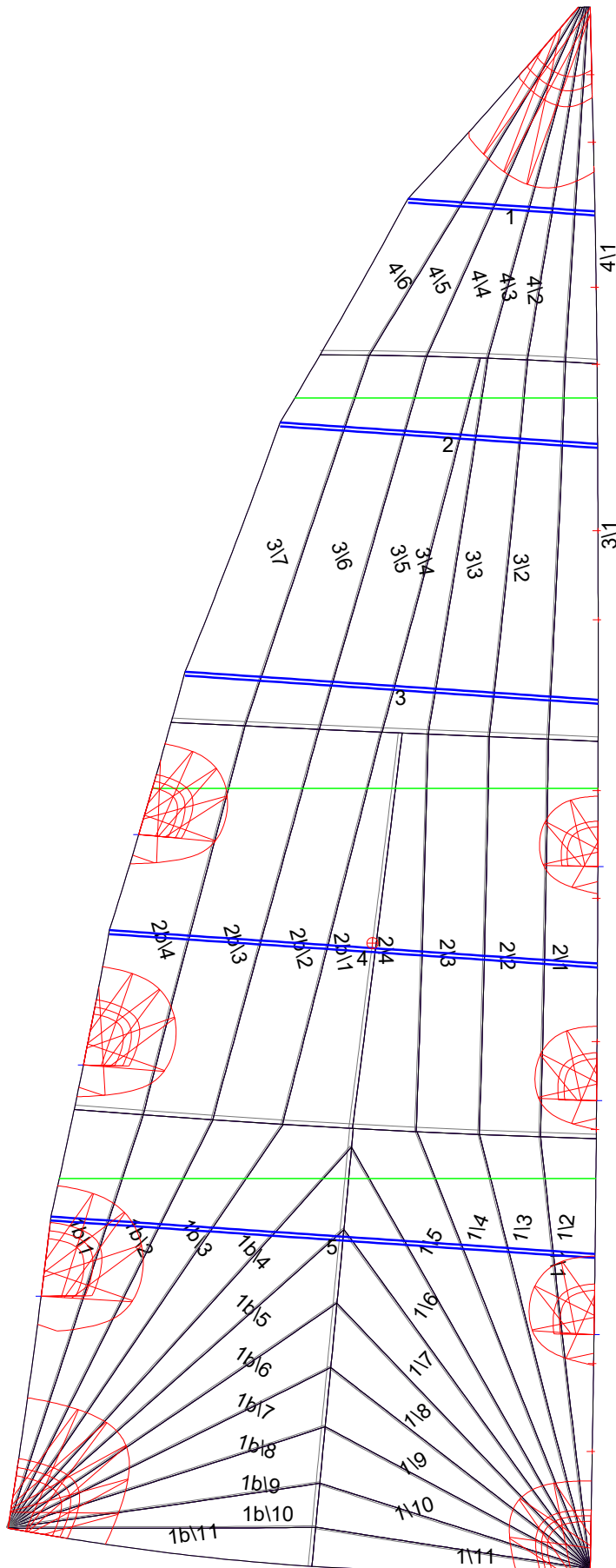
### Luff Slides

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% [0.295m])	Before BSeam
15.839m,	0.000m	100% (15.840m) :	0.000m
13.865m,	-0.046m	90% (14.257m) :	0.078m
11.879m,	-0.072m	80% (12.672m) :	0.146m
9.889m,	-0.080m	70% (11.088m) :	0.194m
7.919m,	-0.080m	60% (9.504m) :	0.212m
5.902m,	-0.073m	50% (7.920m) :	0.207m
3.960m,	-0.058m	40% (6.336m) :	0.182m
1.974m,	-0.033m	30% (4.752m) :	0.143m
0.000m,	0.000m	20% (3.168m) :	0.093m
		10% (1.584m) :	0.040m
		0% (0.000m) :	0.000m

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## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.016m	0.045m
Zone: 1/b	0.038m	0.016m	0.045m
Zone: 2/a	0.038m	0.016m	0.045m
Zone: 2/b	0.038m	0.016m	0.045m
Zone: 3	0.038m	0.016m	0.045m
Zone: 4	0.038m	0.016m	0.045m

## Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

## Total Seam Lengths (m)

Horizontal	13.03
Radial/Vertical	148.29
Bi-Radial Split	8.77

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	66.76	1\1, 1\2, 1\3, 1\4, 1\5 1\6, 1\7, 1\8, 1\9, 1\10 1\11, 1b\1, 1b\2, 1b\3, 1b\4 1b\5, 1b\6, 1b\7, 1b\8, 1b\9 1b\10, 1b\11, 2\1, 2\2, 2\3 2\4, 2b\1, 2b\2, 2b\3, 2b\4 3\1, 3\2, 3\3, 3\4, 3\5 3\6, 3\7, 4\1, 4\2, 4\3 4\4, 4\5, 4\6