

# Mainsail: 4001115 Vjacheslav mainsail R1.des

## Design Info

=====

Initial Design Date: 24/11/2020  
Boat:

Client:

## Design File:

F:\Dropbox (个人)\Fareast Sails\2020\4001115 Vjacheslav\4001115 Vjacheslav mainsail R1.des

### Comments:

Reefing lines go up from the boom in the distance 5.31m and 439m from the mast for reef 1 and reef 2 respectively.

## Design Data

=====

### Main

#### Measurements

Luff geodesic:	16.000m
Leech geodesic:	16.729m
Foot geodesic:	5.780m
Head geodesic:	0.115m
Upper width (MUW):	0.989m
Three-quarter width (MTW):	1.866m
Half width (MHW):	3.404m
Quarter width (MQW):	4.673m
Foot median:	16.326m
ORC Mainsail area:	51.554m <sup>2</sup>
Surface area:	52.643m <sup>2</sup>
Clew height:	0.100m
Mast rake:	0.000m

#### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
85.714%	1.157m	0.157m	73.514°	13.701m	14.295m	Full
71.429%	2.164m	0.271m	73.514°	11.411m	11.913m	Full
57.143%	3.043m	0.288m	73.514°	9.122m	9.530m	Full
42.857%	3.820m	0.252m	73.514°	6.834m	7.148m	Full
28.571%	4.524m	0.190m	73.514°	4.546m	4.765m	Full
14.286%	5.166m	0.100m	73.514°	2.259m	2.383m	Full

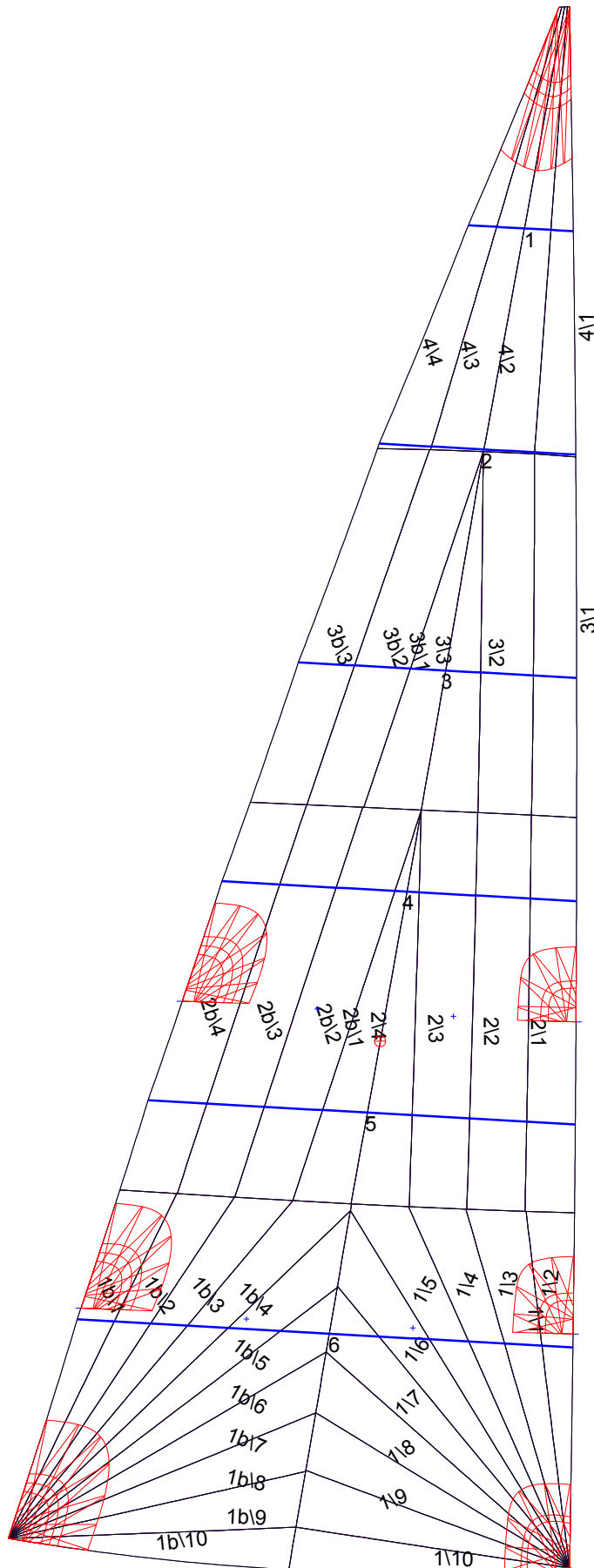
#### Reefing Points

1, Luff: 2.398m ; Leech: 2.488m ; Offset: 0.000m ; Number Eyelets: 2  
2, Luff: 5.597m ; Leech: 5.807m ; Offset: 0.000m ; Number Eyelets: 2

#### Luff Curve

		Fanned Luff (@ 5.00% [0.288m])	Before BSeam
15.999m,	0.000m	100% (16.000m) :	0.000m
14.006m,	-0.034m	90% (14.400m) :	0.018m
12.000m,	-0.058m	80% (12.800m) :	0.034m
9.989m,	-0.070m	70% (11.200m) :	0.044m
8.000m,	-0.073m	60% (9.600m) :	0.048m
5.962m,	-0.067m	50% (8.000m) :	0.048m
4.000m,	-0.054m	40% (6.400m) :	0.044m
1.994m,	-0.031m	30% (4.800m) :	0.038m
0.000m,	0.000m	20% (3.200m) :	0.028m
		10% (1.600m) :	0.014m
		0% (0.000m) :	0.000m

# Mainsail: 4001115 Vjacheslav mainsail R1.des



## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.015m	0.038m
Zone: 1/b	0.038m	0.015m	0.038m
Zone: 2/a	0.038m	0.015m	0.038m
Zone: 2/b	0.038m	0.015m	0.038m
Zone: 3/a	0.038m	0.015m	0.038m
Zone: 3/b	0.038m	0.015m	0.038m
Zone: 4	0.038m	0.015m	0.038m

## Edge Excesses

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

## Total Seam Lengths (m)

Horizontal	10.50
Radial/Vertical	121.67
Bi-Radial Split	11.94

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	52.74	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\3,2\4,2b\1 2b\2,2b\3,2b\4,3\1,3\2 3\3,3b\1,3b\2,3b\3,4\1 4\2,4\3,4\4