

# Mainsail: 7000338 Frode-1 Mainsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000338 Frode\7000338

Initial Design Date: 13/5/2023  
Boat:

Comments:

Client:

Design Data  
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## Main

### Measurements

Luff geodesic: 12.751m  
Leech geodesic: 13.391m  
Foot geodesic: 4.306m  
Head geodesic: 0.115m  
Upper width (MUW): 0.818m  
Three-quarter width (MTW): 1.511m  
Half width (MHW): 2.669m  
Quarter width (MQW): 3.565m  
Foot median: 13.038m  
ORC Mainsail area: 31.739m?  
Surface area: 32.485m?  
Clew height: 0.100m  
Mast rake: 0.000m

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.300m	0.251m	73.214?	10.196m	10.677m	Full
60.000%	2.295m	0.334m	73.214?	7.646m	8.007m	Full
40.000%	3.086m	0.286m	73.214?	5.097m	5.338m	Full
20.000%	3.735m	0.164m	73.214?	2.549m	2.669m	Full

### Reefing Points

1, Luff: 1.848m ; Leech: 1.910m ; Offset: 0.000m ; Number Eyelets: 0  
2, Luff: 3.633m ; Leech: 3.755m ; Offset: 0.000m ; Number Eyelets: 0  
3, Luff: 5.545m ; Leech: 5.733m ; Offset: 0.000m ; Number Eyelets: 0

### Draft Stripes

1, Luff: 4.207m ; Leech: 4.261m ;  
2, Luff: 8.414m ; Leech: 8.671m ;

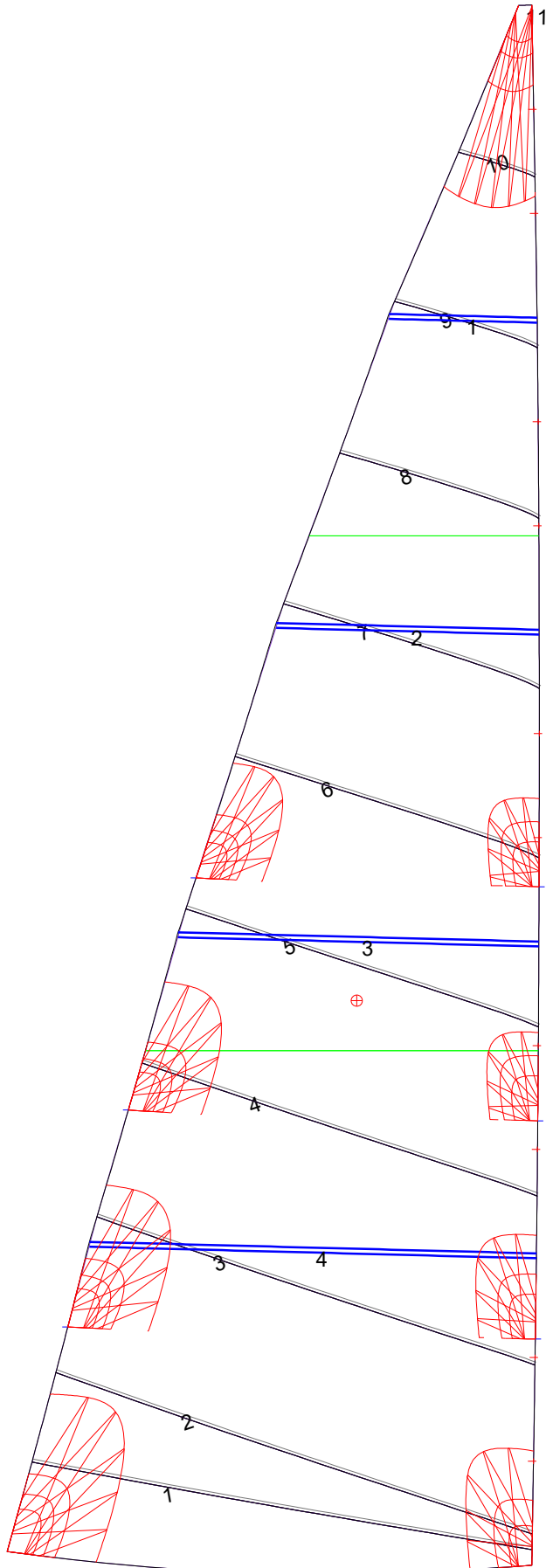
### Luff Slides

1, Position: 0.849m  
2, Position: 1.699m  
3, Position: 3.398m  
4, Position: 4.247m  
5, Position: 5.947m  
6, Position: 6.796m  
7, Position: 8.496m  
8, Position: 9.346m  
9, Position: 11.047m  
10, Position: 11.899m

### Luff Curve

		Fanned Luff (@ 5.00% [0.214m])	Before BSeam
12.750m,	0.000m	100% (12.751m) :	0.000m
11.162m,	-0.029m	90% (11.476m) :	0.048m
9.563m,	-0.051m	80% (10.201m) :	0.095m
7.960m,	-0.060m	70% (8.926m) :	0.131m
6.375m,	-0.061m	60% (7.651m) :	0.149m
4.751m,	-0.056m	50% (6.376m) :	0.152m
3.188m,	-0.045m	40% (5.100m) :	0.139m
1.589m,	-0.025m	30% (3.825m) :	0.113m
0.000m,	0.000m	20% (2.550m) :	0.078m
		10% (1.275m) :	0.038m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.025m	0.025m	0.025m

Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

## Total Seam Lengths (m)

Horizontal	27.76
Radial/Vertical	0.00
Bi-Radial Split	0.00

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	32.53	1,2,3,4,5 6,7,8,9,10 11