

# Mainsail: 7000625 Joaquin Mainsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need Confrim Order\7000625 Joaquin\700

Initial Design Date: 9/8/2023  
Boat:

Comments:

Client:

Design Data  
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Main

Measurements

Luff geodesic: 11.286m  
Leech geodesic: 11.710m  
Foot geodesic: 3.366m  
Head geodesic: 0.115m  
Upper width (MUW): 0.684m  
Three-quarter width (MTW): 1.225m  
Half width (MHW): 2.115m  
Quarter width (MQW): 2.797m  
Foot median: 11.485m  
ORC Mainsail area: 22.247m?  
Surface area: 22.705m?  
Clew height: 0.100m  
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	0.707m	0.209m	75.422?	9.251m	9.575m	
62.000%	1.010m	0.272m	75.422?	6.996m	7.240m	
42.000%	1.010m	0.240m	75.422?	4.741m	4.904m	
22.000%	0.842m	0.138m	75.422?	2.487m	2.569m	

Reefing Points

1, Luff: 1.410m ; Leech: 1.446m ; Offset: 0.000m ; Number Eyelets: 3  
2, Luff: 2.821m ; Leech: 2.888m ; Offset: 0.000m ; Number Eyelets: 2  
3, Luff: 4.231m ; Leech: 4.333m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.723m ; Leech: 3.737m ;  
2, Luff: 7.447m ; Leech: 7.595m ;

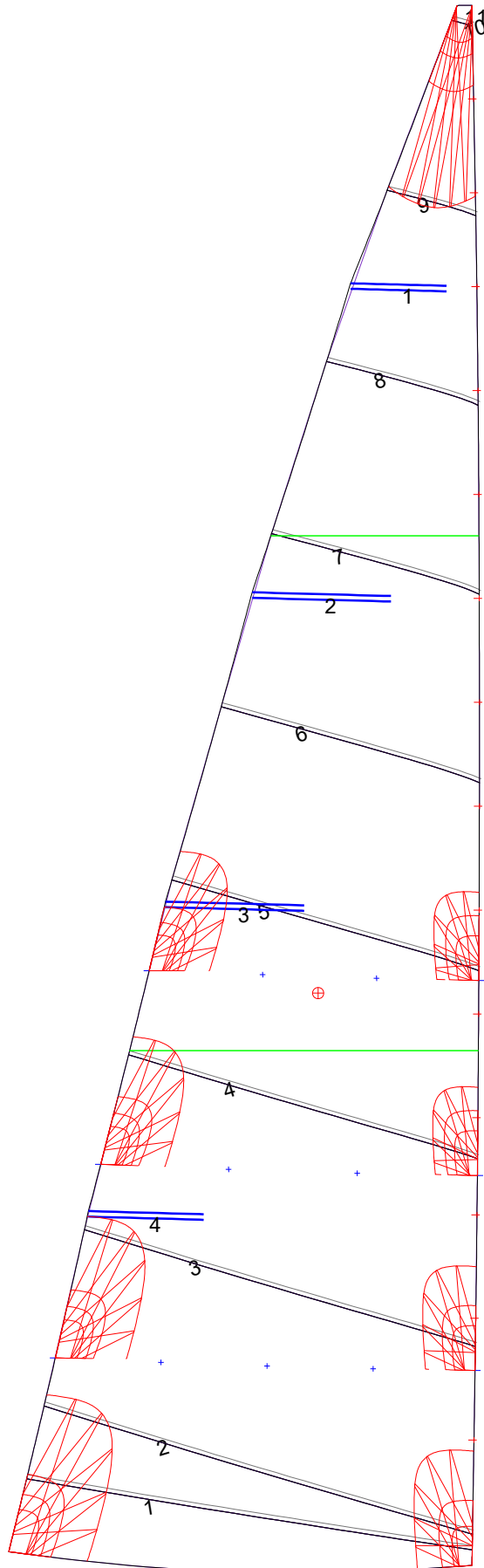
Luff Slides

1, Position: 0.908m  
2, Position: 1.789m  
3, Position: 2.537m  
4, Position: 3.238m  
5, Position: 3.990m  
6, Position: 4.741m  
7, Position: 5.493m  
8, Position: 6.244m  
9, Position: 6.996m  
10, Position: 7.747m  
11, Position: 8.499m  
12, Position: 9.251m  
13, Position: 9.929m  
14, Position: 10.608m

Luff Curve

		Fanned Luff (@ 5.00% [0.168m])	Before BSeam
11.286m,	0.000m	100% (11.286m) :	0.000m
9.879m,	-0.026m	90% (10.158m) :	0.040m
8.464m,	-0.045m	80% (9.029m) :	0.077m
7.046m,	-0.053m	70% (7.900m) :	0.106m
5.643m,	-0.054m	60% (6.772m) :	0.120m
4.205m,	-0.050m	50% (5.643m) :	0.122m
2.821m,	-0.040m	40% (4.514m) :	0.111m
1.406m,	-0.023m	30% (3.386m) :	0.091m
0.000m,	0.000m	20% (2.257m) :	0.063m
		10% (1.129m) :	0.031m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.030m	0.030m	0.030m

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

## Total Seam Lengths (m)

Horizontal	20.50
Radial/Vertical	0.00
Bi-Radial Split	0.00

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	22.71	1,2,3,4,5 6,7,8,9,10 11