

Mainsail: 7000117 James mainsail.des

Design Info
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Design File:
F:\Dropbox\Dropbox-20221019\Dropbox20221213\Dropbox\Fareast Sails\2023 Order\Need Confrim Order\7000117 Ja

Initial Design Date: 30/1/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	10.159m
Leech geodesic:	10.761m
Foot geodesic:	3.520m
Head geodesic:	0.115m
Upper width (MUW):	0.699m
Three-quarter width (MTW):	1.280m
Half width (MHW):	2.232m
Quarter width (MQW):	2.943m
Foot median:	10.350m
ORC Mainsail area:	21.010m?
Surface area:	21.415m?
Clew height:	0.030m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.116m	0.242m	71.962?	8.124m	8.576m	Full
60.000%	1.056m	0.325m	71.962?	6.093m	6.432m	
40.000%	1.056m	0.277m	71.962?	4.062m	4.288m	
20.000%	1.056m	0.158m	71.962?	2.030m	2.144m	

Reefing Points

1, Luff: 1.524m ; Leech: 1.579m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 3.048m ; Leech: 3.160m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.352m ; Leech: 3.452m ;
2, Luff: 6.705m ; Leech: 6.967m ;

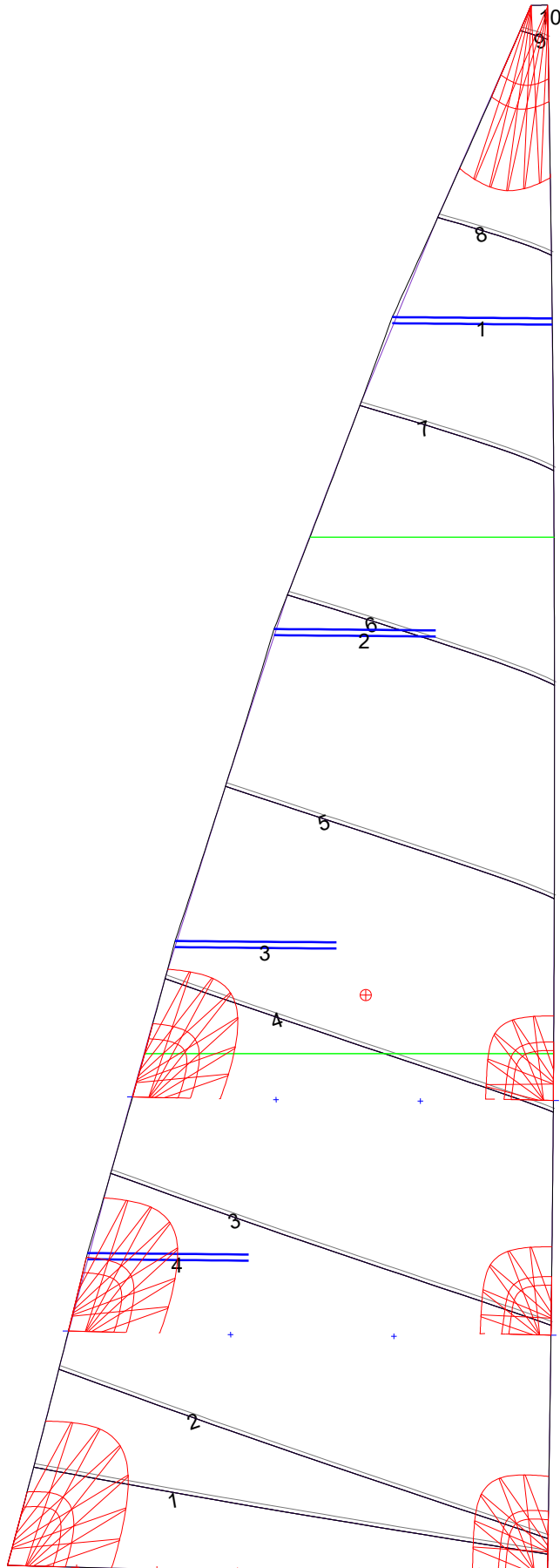
Foot Slides

1, Position: 0.450m
2, Position: 0.974m
3, Position: 1.498m
4, Position: 2.022m
5, Position: 2.546m
6, Position: 3.070m

Luff Curve

		Fanned Luff (@ 5.00% [0.175m])	Before BSeam
10.159m,	0.000m	100% (10.159m) :	0.000m
8.893m,	-0.021m	90% (9.143m) :	0.038m
7.619m,	-0.036m	80% (8.127m) :	0.073m
6.342m,	-0.044m	70% (7.111m) :	0.101m
5.079m,	-0.046m	60% (6.095m) :	0.116m
3.785m,	-0.042m	50% (5.080m) :	0.117m
2.540m,	-0.034m	40% (4.064m) :	0.107m
1.266m,	-0.019m	30% (3.048m) :	0.087m
0.000m,	0.000m	20% (2.032m) :	0.060m
		10% (1.016m) :	0.029m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.000m	0.000m	0.025m

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

Total Seam Lengths (m)

Horizontal	19.40
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	21.41	1,2,3,4,5 6,7,8,9,10