

Mainsail: 5000509 Daniel mainsail.des

Design Info
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Design File:
D:\dropbox\Dropbox\Fareast Sails\2021\5000509 Daniel\5000509 Daniel mainsail.des

Initial Design Date: 21/5/2021
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 6.337m
 Leech geodesic: 7.085m
 Foot geodesic: 3.441m
 Head geodesic: 0.115m
 Upper width (MUW): 0.590m
 Three-quarter width (MTW): 1.095m
 Half width (MHW): 2.028m
 Quarter width (MQW): 2.794m
 Foot median: 6.620m
 ORC Mainsail area: 12.178m?
 Surface area: 12.674m?
 Clew height: 0.100m
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.720m	0.120m	64.272?	5.056m	5.648m	
60.000%	1.029m	0.205m	64.272?	3.783m	4.236m	
40.000%	1.029m	0.173m	64.272?	2.510m	2.824m	
20.000%	0.857m	0.097m	64.272?	1.237m	1.412m	

Reefing Points

1, Luff: 0.950m ; Leech: 1.032m ; Offset: 0.000m ; Number Eyelets: 2
 2, Luff: 1.900m ; Leech: 2.067m ; Offset: 0.000m ; Number Eyelets: 2

Luff Curve

		Fanned Luff (@ 5.00% [0.171m])	Before BSeam
6.337m,	0.000m	100% (6.337m) :	0.000m
5.697m,	-0.013m	90% (5.703m) :	0.028m
5.069m,	-0.023m	80% (5.070m) :	0.052m
4.430m,	-0.029m	70% (4.436m) :	0.070m
3.802m,	-0.032m	60% (3.802m) :	0.083m
2.864m,	-0.031m	50% (3.169m) :	0.088m
1.901m,	-0.024m	40% (2.535m) :	0.086m
1.006m,	-0.014m	30% (1.901m) :	0.074m
0.000m,	0.000m	20% (1.267m) :	0.053m
		10% (0.634m) :	0.025m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.000m	0.000m	0.013m

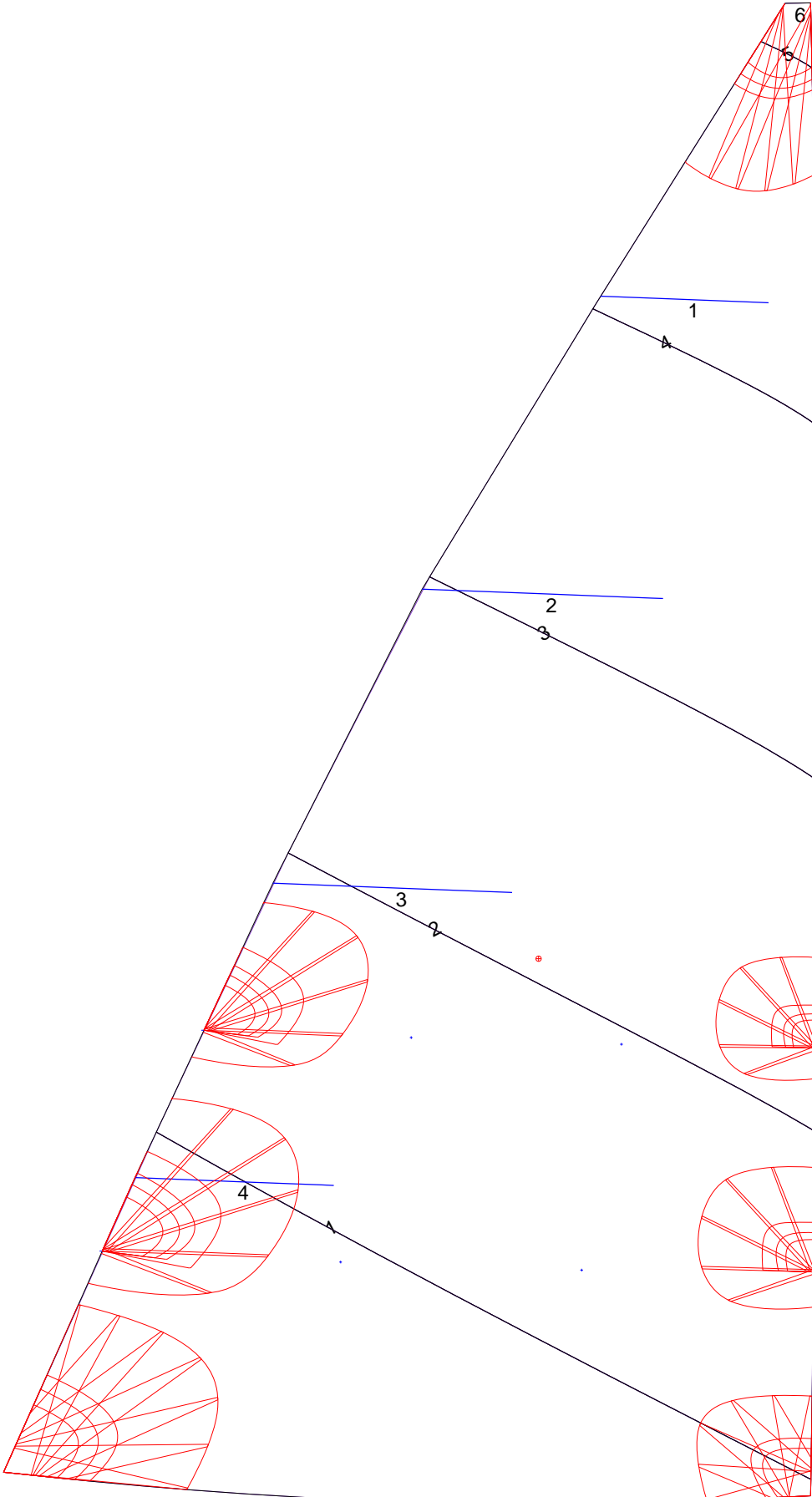
Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	9.09
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	12.67	1,2,3,4,5 6



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