

Mainsail: 6000111 Charles-1 Main.des

Design Info
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Design File:
E:\Dropbox\Fareast Sails\2022 Order\6000111 Charles\6000111 Charles-1 Main.des

Initial Design Date: 18/1/2022
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	10.317m
Leech geodesic:	10.794m
Foot geodesic:	3.470m
Head geodesic:	0.115m
Upper width (MUW):	0.653m
Three-quarter width (MTW):	1.193m
Half width (MHW):	2.123m
Quarter width (MQW):	2.849m
Foot median:	10.468m
ORC Mainsail area:	20.525m?
Surface area:	20.847m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.026m	0.184m	73.387?	8.249m	8.606m	Full
60.000%	1.823m	0.250m	73.387?	6.187m	6.455m	Full
40.000%	2.457m	0.208m	73.387?	4.124m	4.303m	Full
20.000%	2.988m	0.115m	73.387?	2.062m	2.152m	Full

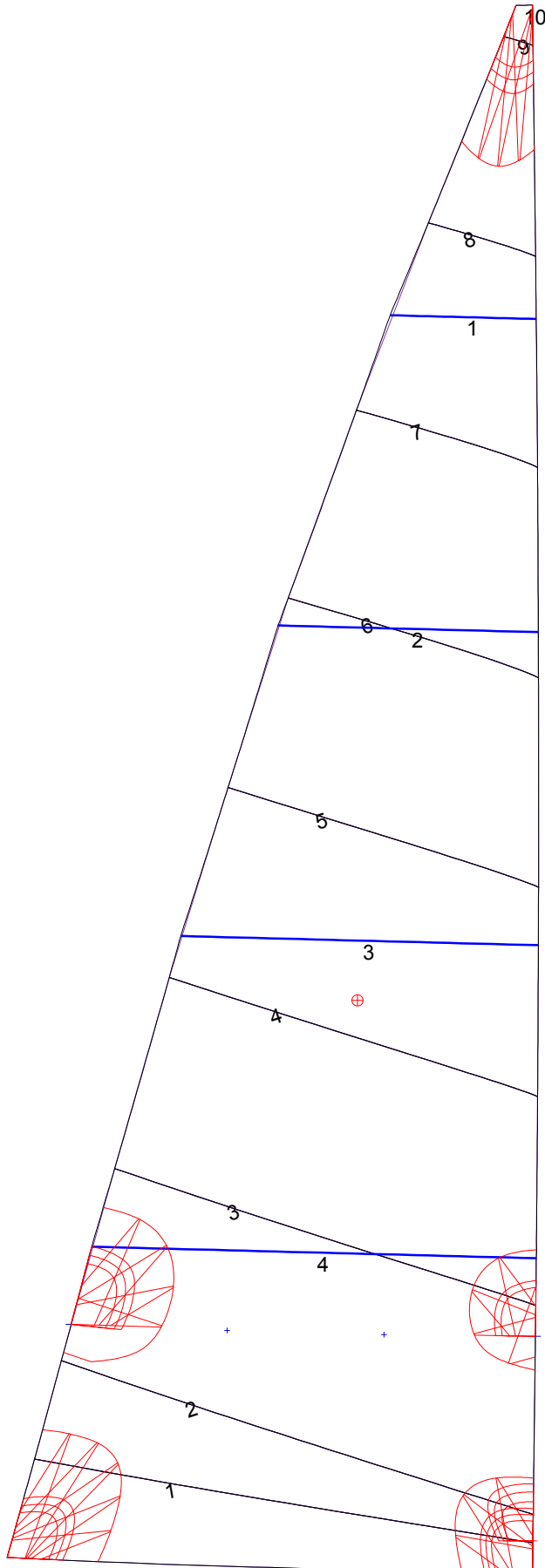
Reefing Points

1, Luff: 1.547m ; Leech: 1.601m ; Offset: 0.000m ; Number Eyelets: 2

Luff Curve

		Fanned Luff (@ 5.00% [0.173m])	Before BSeam
10.317m,	0.000m	100% (10.317m) :	0.000m -0.000m
7.738m,	-0.030m	90% (9.285m) :	0.009m 0.029m
5.158m,	-0.040m	80% (8.254m) :	0.018m 0.058m
2.579m,	-0.030m	70% (7.222m) :	0.025m 0.084m
0.000m,	0.000m	60% (6.190m) :	0.029m 0.101m
		50% (5.158m) :	0.029m 0.103m
		40% (4.127m) :	0.028m 0.095m
		30% (3.095m) :	0.023m 0.078m
		20% (2.063m) :	0.016m 0.053m
		10% (1.032m) :	0.008m 0.024m
		0% (0.000m) :	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	18.66
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	20.85	1,2,3,4,5 6,7,8,9,10