

Mainsail: 5000701 Hugo mainsailv2

Design Info
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Design File:
D:\Dropbox\Fareast Sails\2021\5000701 Hugo\5000701 Hugo mainsailv2.des

Initial Design Date: 9/8/2021
Boat:

Comments:
Need 4 full battens and 1 partial batten at the bottom.

Client:

Design Data
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Main

Measurements

Luff geodesic:	12.900m
Leech geodesic:	13.580m
Foot geodesic:	4.250m
Head geodesic:	0.115m
Upper width (MUW):	0.755m
Three-quarter width (MTW):	1.403m
Half width (MHW):	2.561m
Quarter width (MQW):	3.473m
Foot median:	13.106m
ORC Mainsail area:	31.013m?
Surface area:	31.425m?
Clew height:	-0.021m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
83.333%	1.000m	0.125m	72.560?	10.741m	11.300m	Full
66.667%	1.857m	0.236m	72.560?	8.585m	9.040m	Full
50.000%	2.590m	0.249m	72.560?	6.428m	6.780m	Full
33.333%	3.208m	0.188m	72.560?	4.272m	4.520m	Full
16.667%	1.200m	0.096m	72.560?	2.116m	2.260m	

Luff Slides

1, Position: 0.897m
2, Position: 1.793m
3, Position: 2.690m
4, Position: 4.810m
5, Position: 6.033m
6, Position: 8.419m
7, Position: 10.689m
8, Position: 11.794m

Foot Slides

1, Position: 0.100m
2, Position: 0.810m
3, Position: 1.520m
4, Position: 2.230m
5, Position: 2.940m
6, Position: 3.650m

Luff Curve

		Fanned Luff (@ 5.00% [0.212m])	Before BSeam
12.900m,	0.000m	100% (12.900m) :	0.000m
11.597m,	-0.027m	90% (11.610m) :	0.021m
10.320m,	-0.047m	80% (10.320m) :	0.037m
9.017m,	-0.059m	70% (9.030m) :	0.046m
7.739m,	-0.065m	60% (7.740m) :	0.050m
5.830m,	-0.063m	50% (6.450m) :	0.050m
3.870m,	-0.049m	40% (5.160m) :	0.044m
2.049m,	-0.029m	30% (3.870m) :	0.035m
0.000m,	0.000m	20% (2.580m) :	0.024m
		10% (1.290m) :	0.011m
		0% (0.000m) :	0.000m

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Seam Allowances			
	Split	Radial	Cross
Zone: 1	0.000m	0.000m	0.038m
Zone: 2	0.000m	0.000m	0.038m

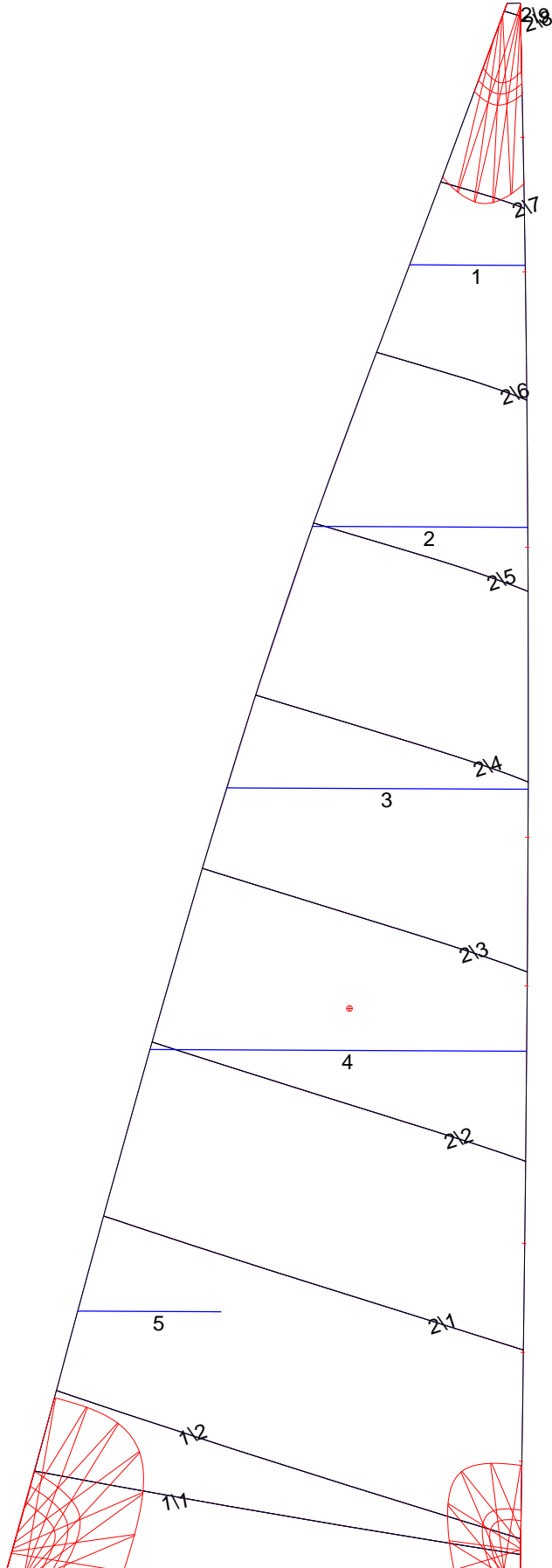
Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	24.71
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	31.42	1\1,1\2,2\1,2\2,2\3 2\4,2\5,2\6,2\7,2\8 2\9



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