

Mainsail: 6001208 Mario-1 Main - V1.des

Design Info
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Design File:
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Initial Design Date: 17/12/2022
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 23.999Ft
 Leech geodesic: 25.446Ft
 Foot geodesic: 9.081Ft
 Head geodesic: 0.377Ft
 Upper width (MUW): 2.080Ft
 Three-quarter width (MTW): 3.831Ft
 Half width (MHW): 6.528Ft
 Quarter width (MQW): 8.108Ft
 Foot median: 24.665Ft
 ORC Mainsail area: 139.092Ft?
 Surface area: 145.665Ft?
 Clew height: 0.328Ft
 Mast rake: 0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	3.504Ft	1.144Ft	72.562?	19.142Ft	20.231Ft	Full
60.000%	2.641Ft	1.623Ft	72.562?	14.310Ft	15.174Ft	
40.000%	2.640Ft	1.451Ft	72.562?	9.480Ft	10.116Ft	
20.000%	2.641Ft	0.814Ft	72.562?	4.651Ft	5.058Ft	

Luff Curve

		Fanned Luff (@ 5.00% [0.452Ft])	Before BSeam
23.999Ft,	0.000Ft	100% (23.999Ft) :	0.000Ft
21.008Ft,	-0.050Ft	90% (21.600Ft) :	0.105Ft
17.999Ft,	-0.086Ft	80% (19.199Ft) :	0.204Ft
14.982Ft,	-0.104Ft	70% (16.800Ft) :	0.281Ft
11.999Ft,	-0.108Ft	60% (14.400Ft) :	0.320Ft
8.942Ft,	-0.100Ft	50% (12.000Ft) :	0.318Ft
6.000Ft,	-0.080Ft	40% (9.600Ft) :	0.282Ft
2.991Ft,	-0.045Ft	30% (7.200Ft) :	0.221Ft
0.000Ft,	0.000Ft	20% (4.800Ft) :	0.147Ft
		10% (2.400Ft) :	0.068Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.082Ft	0.049Ft	0.082Ft
Zone: 1/b	0.082Ft	0.049Ft	0.082Ft
Zone: 2/a	0.082Ft	0.049Ft	0.082Ft
Zone: 2/b	0.082Ft	0.049Ft	0.082Ft
Zone: 3	0.082Ft	0.049Ft	0.082Ft

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000Ft	0.000Ft	0.000Ft

Total Seam Lengths (Ft)

Horizontal	12.95
Radial/Vertical	175.81
Bi-Radial Split	16.95

Materials

Material	Area (Ft ²)	Panels
Material 1	145.87	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1b\1,1b\2,1b\3,1b\4,1b\5 1b\6,1b\7,1b\8,1b\9,1b\10 2\1,2\2,2\3,2b\1,2b\2 2b\3,3\1,3\2,3\3,3\4

