

Mainsail: 5000110 Michael mainsail.des

Design Info
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Design File:
F:\Dropbox (个人)\Fareast Sails\2021\5000110 Michael\5000110 Michael mainsail.des

Initial Design Date: 15/1/2021
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	12.370m
Leech geodesic:	13.123m
Foot geodesic:	4.730m
Head geodesic:	0.115m
Upper width (MUW):	0.821m
Three-quarter width (MTW):	1.529m
Half width (MHW):	2.785m
Quarter width (MQW):	3.821m
Foot median:	12.710m
ORC Mainsail area:	32.648m?
Surface area:	33.422m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.299m	0.173m	70.918?	9.891m	10.463m	Full
60.000%	2.363m	0.238m	70.918?	7.418m	7.848m	Full
40.000%	3.248m	0.198m	70.918?	4.945m	5.232m	Full
20.000%	4.022m	0.113m	70.918?	2.472m	2.616m	Full

Reefing Points

1, Luff: 1.855m ; Leech: 1.950m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 3.710m ; Leech: 3.898m ; Offset: 0.000m ; Number Eyelets: 2
3, Luff: 5.565m ; Leech: 5.847m ; Offset: 0.000m ; Number Eyelets: 2

Luff Curve

		Fanned Luff (@ 5.00% [0.236m])	Before BSeam
12.370m,	0.000m	100% (12.370m) :	0.000m
10.828m,	-0.026m	90% (11.133m) :	0.045m
9.277m,	-0.045m	80% (9.896m) :	0.089m
7.722m,	-0.054m	70% (8.659m) :	0.123m
6.185m,	-0.056m	60% (7.422m) :	0.144m
4.609m,	-0.052m	50% (6.185m) :	0.147m
3.092m,	-0.042m	40% (4.948m) :	0.135m
1.541m,	-0.024m	30% (3.711m) :	0.111m
0.000m,	0.000m	20% (2.474m) :	0.076m
		10% (1.237m) :	0.037m
		0% (0.000m) :	0.000m

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Seam Allowances			
	Split	Radial	Cross
Zone: 1/a	0.038m	0.015m	0.038m
Zone: 1/b	0.038m	0.015m	0.038m
Zone: 2	0.038m	0.015m	0.038m

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

Total Seam Lengths (m)

Horizontal	28.60
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	33.45	1\1,1b\1,2\1,2\2,2\3 2\4,2\5,2\6,2\7,2\8 2\9

