

Mainsail: 8001003 Michael-1 Moody S31 fullbattmain.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8001003 Michael M

Initial Design Date: 5/11/2024
Boat:
Moody S31
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 10.110m
Leech geodesic: 10.556m
Foot geodesic: 3.207m
Head geodesic: 0.115m
Upper width (MUW): 0.653m
Three-quarter width (MTW): 1.172m
Half width (MHW): 2.026m
Quarter width (MQW): 2.691m
Foot median: 10.304m
ORC Mainsail area: 19.091m?
Surface area: 19.570m?
Clew height: 0.100m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
83.333%	0.878m	0.189m	74.421?	8.420m	8.768m	Full
66.667%	1.534m	0.287m	74.421?	6.735m	7.015m	Full
50.000%	2.053m	0.274m	74.421?	5.051m	5.261m	Full
33.333%	2.512m	0.226m	74.421?	3.367m	3.507m	Full
16.667%	2.884m	0.122m	74.421?	1.683m	1.754m	Full

Reefing Points

1, Luff: 1.132m ; Leech: 1.162m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 2.426m ; Leech: 2.489m ; Offset: 0.000m ; Number Eyelets: 2
3, Luff: 3.841m ; Leech: 3.943m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.234m ; Leech: 3.251m ;
2, Luff: 6.570m ; Leech: 6.721m ;

Luff Curve

		Fanned Luff (@ 5.00% [0.160m])	Before BSeam
10.110m,	0.000m	100% (10.110m) :	0.000m
8.850m,	-0.023m	90% (9.099m) :	0.014m
7.582m,	-0.040m	80% (8.088m) :	0.067m
6.312m,	-0.047m	70% (7.077m) :	0.088m
5.055m,	-0.048m	60% (6.066m) :	0.100m
3.767m,	-0.044m	50% (5.055m) :	0.102m
2.527m,	-0.036m	40% (4.044m) :	0.096m
1.260m,	-0.020m	30% (3.033m) :	0.083m
0.000m,	0.000m	20% (2.022m) :	0.061m
		10% (1.011m) :	0.009m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone:	Split	Radial	Cross
1	0.025m	0.025m	0.025m

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

Total Seam Lengths (m)

Horizontal	17.90
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	19.55	1,2,3,4,5 6,7,8,9,10

