

Mainsail: 8001003 Michael-1 Moody S31 fullbattmainV1.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: 13/11/2024
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):	0.668m
Three-quarter width (MTW):	1.183m
Half width (MHW):	2.022m
Quarter width (MQW):	2.680m
Foot median:	10.304m
ORC Mainsail area:	19.094m?
Surface area:	19.568m?
Clew height:	0.100m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
85.333%	0.811m	0.189m	74.421?	8.622m	8.979m	Full
68.667%	1.469m	0.287m	74.421?	6.938m	7.225m	Full
52.000%	1.990m	0.274m	74.421?	5.253m	5.471m	Full
35.333%	2.452m	0.226m	74.421?	3.569m	3.718m	Full
18.067%	2.845m	0.122m	74.421?	1.825m	1.901m	Full

Reefing Points

- 1, Luff: 1.600m ; Leech: 1.643m ; Offset: 0.000m ; Number Eyelets: 2
- 2, Luff: 3.200m ; Leech: 3.285m ; Offset: 0.000m ; Number Eyelets: 2
- 3, Luff: 5.000m ; Leech: 5.139m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

- 1, Luff: 3.335m ; Leech: 3.358m ;
- 2, Luff: 6.671m ; Leech: 6.827m ;

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) :	0.099m
3.767m,	-0.044m	50% (5.055m) :	0.101m
2.527m,	-0.036m	40% (4.044m) :	0.096m
1.260m,	-0.020m	30% (3.033m) :	0.082m
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: 1	Split	Radial	Cross
	0.025m	0.025m	0.025m

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

Total Seam Lengths (m)

Horizontal	17.91
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	19.56	1,2,3,4,5 6,7,8,9,10

