

Asymmetric: 8001003 Michael-3 Moody S31 asy spi.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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Asymmetric

Measurements

Luff length (SLU):	12.500m	
Leech length (SLE):	11.502m	
Foot length (SFL):	6.174m	
Headboard Width:	0.015m	
Three-quarter width:	4.031m	Closest Pt: 3.440m
Half width (SHW):	6.106m	Closest Pt: 5.770m
Quarter width:	6.625m	Closest Pt: 6.703m
ORC Area:	61.203m?	
IRC Area:	60.958m?	
Surface Area:	63.141m?	
Hoist height:	12.190m	
J:	3.430m	

Luff Curve		Fanned Luff (@ 5.00% [0.273m])	Before BSeam
15.500m,	0.000m	100% (12.496m) :	0.000m
11.625m,	0.000m	87% (10.875m) :	0.141m
7.750m,	0.000m	76% (9.500m) :	0.243m
3.875m,	0.000m	66% (8.242m) :	1.158m
0.000m,	0.000m	56% (7.030m) :	1.439m
		47% (5.841m) :	1.420m
		37% (4.666m) :	1.291m
		28% (3.498m) :	1.070m
		19% (2.332m) :	0.771m
		9% (1.166m) :	0.409m
		0% (0.000m) :	0.000m

Section Data

Position	Camber	Draft	Twist	Entry	Exit	Roach	Luff Off	Luff Roach	Fwd Camb	Aft Camb
100.00%	21.811%	45.000%	15.000?	64.750?	-38.468?	0.000m	0.000m	0.000m	19.200%	17.067%
95.00%	22.247%	44.943%	14.813?	66.000?	-40.391?	0.383m	0.073m	0.575m	19.502%	17.573%
74.99%	23.992%	44.716%	13.594?	71.000?	-45.306?	1.213m	0.282m	1.437m	20.805%	19.029%
49.99%	25.082%	44.431%	11.063?	74.250?	-47.016?	1.247m	0.310m	1.349m	21.507%	19.696%
25.00%	24.319%	44.148%	6.750?	72.250?	-44.452?	0.764m	0.207m	0.785m	20.688%	18.797%
10.00%	22.247%	43.977%	3.094?	66.500?	-40.177?	0.321m	0.087m	0.332m	18.885%	17.028%
0.00%	19.957%	43.864%	0.000?	59.500?	-35.048?	0.000m	0.000m	0.000m	16.895%	15.080%
-5.00%	18.321%	43.807%	-1.688?	55.000?	-31.202?	-0.158m	-0.043m	-0.170m	15.521%	13.684%
-10.00%	16.358%	43.750%	-3.563?	50.000?	-25.645?	-0.315m	-0.087m	-0.343m	13.917%	11.899%

Chord Data

Luff : 12.0797m
Leech : 10.6542m
Foot : 5.5855m
Headboard width : 0.0150m

Fanned Foot Curve Depths

25.0%	50.0%	75.0%
0.1436m	0.2245m	0.1724m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.025m
Zone: 1/b	0.025m	0.015m	0.025m
Zone: 2/a	0.025m	0.015m	0.025m
Zone: 2/b	0.025m	0.015m	0.025m
Zone: 3/a	0.025m	0.015m	0.025m
Zone: 3/b	0.025m	0.015m	0.025m
Zone: 4	0.025m	0.015m	0.025m

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	18.82
Radial/Vertical	216.88
Bi-Radial Split	7.71

Materials

Material	Area (m ²)	Panels
dark blue	21.45	1\1,1\6,1\7,1\15,1\16 1b\1,1b\6,1b\7,1b\15,1b\16 2\1,2\6,2\7,2b\7,2b\6 2b\1,3\1,3\6,3\7,3b\7 3b\6,3b\1,4\1,4\6,4\7 4\12
ocean blue	20.05	1\4,1\5,1\9,1\10,1\13 1\14,1b\4,1b\5,1b\9,1b\10 1b\13,1b\14,2\4,2\5,2\9 2b\9,2b\5,2b\4,3\4,3\5 3b\5,3b\4,4\4,4\5,4\8 4\9
white	21.60	1\2,1\3,1\8,1\11,1\12 1b\2,1b\3,1b\8,1b\11,1b\12 2\2,2\3,2\8,2b\8,2b\3 2b\2,3\2,3\3,3\8,3b\8 3b\3,3b\2,4\2,4\3,4\10 4\11

