

Asymmetric: 8001003 Michael-3 Moody S31 asy spiV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2025 orders\Need to be Confirmed\8001103 Paul Vikir

Initial Design Date: 2/1/2025
Boat:
Moody S31
Client:

Comments:

Design Data
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Asymmetric

Measurements

Luff length (SLU):	12.400m	
Leech length (SLE):	11.048m	
Foot length (SFL):	6.174m	
Headboard Width:	0.015m	
Three-quarter width:	3.633m	Closest Pt: 3.026m
Half width (SHW):	5.770m	Closest Pt: 5.300m
Quarter width:	6.418m	Closest Pt: 6.312m
ORC Area:	57.165m?	
IRC Area:	56.936m?	
Surface Area:	56.621m?	
Hoist height:	12.190m	
J:	3.430m	

Luff Curve		Fanned Luff (@ 5.00% [0.260m])	Before BSeam
15.500m,	0.000m	100% (12.405m) :	0.000m
11.625m,	0.000m	87% (10.767m) :	0.588m
7.750m,	0.000m	75% (9.274m) :	1.028m
3.875m,	0.000m	64% (7.947m) :	1.276m
0.000m,	0.000m	54% (6.712m) :	1.373m
		45% (5.529m) :	1.347m
		35% (4.383m) :	1.215m
		26% (3.269m) :	0.992m
		18% (2.172m) :	0.696m
		9% (1.084m) :	0.355m
		0% (0.000m) :	0.000m

Section Data

Position	Camber	Draft	Twist	Entry	Exit	Roach	Luff Off	Luff Roach	Fwd Camb	Aft Camb
100.00%	12.690%	45.648%	8.000?	23.846?	-10.132?	0.000m	0.000m	0.000m	9.867%	9.400%
88.60%	16.510%	45.633%	7.088?	35.865?	-26.879?	0.674m	0.160m	0.750m	13.172%	12.884%
75.00%	19.648%	45.675%	6.000?	45.530?	-38.513?	1.191m	0.282m	1.270m	15.930%	15.684%
49.96%	24.151%	45.420%	3.997?	54.350?	-45.298?	1.292m	0.310m	1.345m	19.674%	19.292%
25.00%	26.177%	45.323%	2.000?	55.734?	-45.874?	0.807m	0.207m	0.828m	21.217%	20.757%
0.00%	27.562%	45.906%	0.000?	54.924?	-43.302?	0.000m	0.000m	0.000m	21.975%	21.426%

Chord Data

Luff : 12.0900m
Leech : 10.5893m
Foot : 5.1982m
Headboard width : 0.0150m

Fanned Foot Curve Depths

25.0%	50.0%	75.0%
0.1143m	0.1107m	0.0446m

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Seam Allowances

	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
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	18.07
Radial/Vertical	211.44
Bi-Radial Split	7.33

Materials

Material	Area (m ²)	Panels
Material 1	56.77	1-1,1-2,1-3,1-4,1-5 1-6,1-7,1-8,1-9,1-10 1-11,1-12,1-13,1-14,1-15 1-16,1b-1,1b-2,1b-3,1b-4 1b-5,1b-6,1b-7,1b-8,1b-9 1b-10,1b-11,1b-12,1b-13,1b-14 1b-15,1b-16,2-1,2-2,2-3 2-4,2-5,2-6,2-7,2-8 2-9,2b-9,2b-8,2b-7,2b-6 2b-5,2b-4,2b-3,2b-2,2b-1 3-1,3-2,3-3,3-4,3-5 3-6,3-7,3-8,3b-8,3b-7 3b-6,3b-5,3b-4,3b-3,3b-2 3b-1,4-1,4-2,4-3,4-4 4-5,4-6,4-7,4-8,4-9 4-10,4-11,4-12

