

Asymmetric: 8000930 Andrew Moody 45DS top-down asy spi.des

Design Info
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Initial Design Date: 9/10/2024
Boat:
Moody 45DS
Client:

Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000930 Andrew M

Comments:

Design Data
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Asymmetric

Measurements

Luff length (SLU):	19.730m	
Leech length (SLE):	17.451m	
Foot length (SFL):	10.080m	
Headboard Width:	0.015m	
Three-quarter width:	5.431m	Closest Pt: 4.790m
Half width (SHW):	9.142m	Closest Pt: 8.533m
Quarter width:	10.478m	Closest Pt: 10.458m
ORC Area:	144.531m ²	
IRC Area:	143.953m ²	
Surface Area:	146.785m ²	
Hoist height:	18.930m	
J:	5.600m	

Luff Curve

15.500m,	0.000m
11.625m,	0.000m
7.750m,	0.000m
3.875m,	0.000m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.427m])

100% (19.707m) :	-0.000m	-0.000m
86% (16.906m) :	-0.088m	1.048m
73% (14.430m) :	-0.222m	1.813m
62% (12.304m) :	-0.332m	2.260m
53% (10.382m) :	-0.389m	2.446m
43% (8.571m) :	-0.411m	2.417m
35% (6.825m) :	-0.405m	2.201m
26% (5.112m) :	-0.365m	1.820m
17% (3.411m) :	-0.274m	1.288m
9% (1.707m) :	-0.142m	0.659m
0% (0.000m) :	0.000m	0.000m

Before BSeam

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.035m	0.016m	0.038m
Zone: 1/b	0.035m	0.016m	0.038m
Zone: 2/a	0.035m	0.016m	0.038m
Zone: 2/b	0.035m	0.016m	0.038m
Zone: 3/a	0.035m	0.016m	0.038m
Zone: 3/b	0.035m	0.016m	0.038m
Zone: 4	0.035m	0.016m	0.038m

Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	29.22
Radial/Vertical	403.97
Bi-Radial Split	11.75

Materials

Material	Area (m ²)	Panels
Material 1	146.96	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\16,1\17,1b\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\16,1b\17,2\1 2\2,2\3,2\4,2\5,2\6 2\7,2\8,2\9,2\10,2b\1 2b\2,2b\3,2b\4,2b\5,2b\6 2b\7,2b\8,2b\9,2b\10,3\1 3\2,3\3,3\4,3\5,3\6 3\7,3\8,3\9,3b\1,3b\2 3b\3,3b\4,3b\5,3b\6,3b\7 3b\8,3b\9,4\1,4\2,4\3 4\4,4\5,4\6,4\7,4\8 4\9,4\10,4\11,4\12,4\13 4\14,4\15,4\16

