

# Asymmetric: 7001200 Alfred Beneteau First 41s5 ASpin.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001200 Alfred\700

Initial Design Date: 7/9/2023  
Boat:

Comments:

Client:

Design Data  
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Asymmetric

Measurements

Luff length (SLU):	16.800m	
Leech length (SLE):	15.677m	
Foot length (SFL):	9.100m	
Headboard Width:	0.010m	
Three-quarter width:	5.570m	Closest Pt: 4.538m
Half width (SHW):	9.555m	Closest Pt: 8.870m
Quarter width:	10.198m	Closest Pt: 10.513m
ORC Area:	128.070m <sup>2</sup>	
IRC Area:	127.558m <sup>2</sup>	
Surface Area:	133.415m <sup>2</sup>	
Hoist height:	15.000m	
J:	5.200m	

Luff Curve		Fanned Luff (@ 5.00% [0.369m])	Before BSeam
15.500m,	0.000m	100% (16.606m) :	0.000m
11.625m,	0.000m	85% (14.176m) :	-0.362m
7.750m,	0.000m	73% (12.060m) :	-0.766m
3.875m,	0.000m	62% (10.307m) :	-1.075m
0.000m,	0.000m	53% (8.760m) :	-1.178m
		44% (7.301m) :	-1.144m
		35% (5.873m) :	-1.024m
		27% (4.442m) :	-0.841m
		18% (2.990m) :	-0.604m
		9% (1.507m) :	-0.317m
		0% (0.000m) :	0.000m

Section Data

Position	Camber	Draft	Twist	Entry	Exit	Roach	Luff Off	Luff Roach	Fwd Camb	Aft Camb
100.00%	3.817%	45.598%	17.000?	9.511?	-5.942?	0.000m	0.000m	0.000m	3.000%	2.800%
88.60%	12.436%	45.633%	15.062?	38.642?	-25.254?	1.255m	1.019m	2.169m	10.454%	9.792%
74.98%	18.018%	45.675%	12.747?	55.367?	-34.663?	2.014m	1.814m	3.221m	15.121%	14.066%
49.97%	24.431%	45.752%	8.495?	69.498?	-41.688?	1.963m	1.869m	3.085m	20.269%	18.785%
25.00%	27.084%	45.829%	4.250?	72.734?	-44.173?	1.096m	1.139m	1.813m	22.363%	20.772%
0.00%	28.503%	45.906%	0.000?	75.361?	-46.217?	0.000m	0.000m	0.000m	23.573%	21.929%
-6.00%	28.775%	45.921%	-1.020?	75.965?	-46.649?	-0.263m	-0.297m	-0.465m	23.811%	22.154%

Chord Data

Luff : 14.9129m  
Leech : 12.6567m  
Foot : 7.5641m  
Headboard width : 0.0100m

Fanned Foot Curve Depths

25.0%	50.0%	75.0%
0.2575m	0.4347m	0.3352m

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## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.038m
Zone: 1/b	0.025m	0.015m	0.038m
Zone: 2/a	0.025m	0.015m	0.038m
Zone: 2/b	0.025m	0.015m	0.038m
Zone: 3/a	0.025m	0.015m	0.038m
Zone: 3/b	0.025m	0.015m	0.038m
Zone: 4	0.025m	0.015m	0.038m

## Edge Excesses

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

## Total Seam Lengths (m)

Horizontal	29.71
Radial/Vertical	304.98
Bi-Radial Split	10.72

## Materials

Material	Area (m <sup>2</sup> )	Panels
pink	14.09	1b\1,1b\2,2b\2,2b\1,3b\2 3b\1,4\11,4\12
middle blue	103.13	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\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\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\3,3\3,3\4,3\5 3\6,3\7,3\8,3b\8,3b\7 3b\6,3b\5,3b\4,3b\3,4\3 4\4,4\5,4\6,4\7,4\8 4\9,4\10
fluor yellow	16.09	1\1,1\2,2\1,2\2,3\1 3\2,4\1,4\2

