

Asymmetric: Beneteau First 41s5 ASpin Preliminary design.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed Order\Preliminary d

Initial Design Date: 7/9/2023
Boat:

Comments:

Client:

Design Data
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Asymmetric

Measurements

Luff length (SLU):	17.500m	
Leech length (SLE):	17.061m	
Foot length (SFL):	9.360m	
Headboard Width:	0.010m	
Three-quarter width:	6.011m	Closest Pt: 4.921m
Half width (SHW):	10.082m	Closest Pt: 9.579m
Quarter width:	10.581m	Closest Pt: 11.048m
ORC Area:	143.104m ²	
IRC Area:	142.532m ²	
Surface Area:	148.643m ²	
Hoist height:	15.000m	
J:	5.300m	

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% [0.386m])

100% (16.997m) :	0.000m	0.000m
79% (13.485m) :	-0.816m	3.656m
67% (11.320m) :	-1.476m	4.471m
57% (9.630m) :	-1.833m	5.150m
48% (8.129m) :	-1.932m	4.777m
40% (6.725m) :	-1.858m	4.274m
32% (5.373m) :	-1.638m	3.599m
24% (4.036m) :	-1.301m	2.786m
16% (2.696m) :	-0.894m	1.889m
8% (1.350m) :	-0.457m	0.948m
0% (0.000m) :	0.000m	0.000m

Before BSeam

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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	31.66
Radial/Vertical	324.03
Bi-Radial Split	10.97

Materials

Material	Area (m ²)	Panels
pink	16.35	1b\1,1b\2,2b\2,2b\1,3b\2 3b\1,4\11,4\12
middle blue	114.68	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	17.87	1\1,1\2,2\1,2\2,3\1 3\2,4\1,4\2

