

# Asymmetric: 8000819 Keith Dufour 410 Grand Large Asy spi A2.des

## Design Info

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Initial Design Date: 27/8/2024  
Boat:  
Dufour 410 Grand Large  
Client:

## Design File:

\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000819 Keith Dufour

Comments:

## Design Data

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### Asymmetric

#### Measurements

Luff length (SLU):	17.350m	
Leech length (SLE):	16.000m	
Foot length (SFL):	10.080m	
Headboard Width:	0.020m	
Three-quarter width:	6.358m	Closest Pt: 4.998m
Half width (SHW):	10.332m	Closest Pt: 9.465m
Quarter width:	11.206m	Closest Pt: 11.543m
ORC Area:	142.870m <sup>2</sup>	
IRC Area:	142.299m <sup>2</sup>	
Surface Area:	151.949m <sup>2</sup>	
Hoist height:	16.350m	
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% [0.440m])

100% (17.326m) :	-0.000m	0.000m
86% (14.842m) :	-0.128m	1.086m
74% (12.834m) :	-0.266m	3.503m
64% (11.066m) :	-0.367m	4.043m
54% (9.410m) :	-0.412m	4.878m
45% (7.809m) :	-0.413m	4.484m
36% (6.237m) :	-0.380m	3.834m
27% (4.677m) :	-0.317m	3.031m
18% (3.121m) :	-0.225m	2.100m
9% (1.562m) :	-0.113m	1.077m
0% (0.000m) :	0.000m	0.000m

#### Before BSeam

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## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.030m	0.016m	0.040m
Zone: 1/b	0.030m	0.016m	0.040m
Zone: 2/a	0.030m	0.016m	0.040m
Zone: 2/b	0.030m	0.016m	0.040m
Zone: 3/a	0.030m	0.016m	0.040m
Zone: 3/b	0.030m	0.016m	0.040m
Zone: 4	0.030m	0.016m	0.040m

## Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

## Total Seam Lengths (m)

Horizontal	32.16
Radial/Vertical	373.38
Bi-Radial Split	11.49

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	151.89	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

