

# Asymmetric: Beneteau 40 A4 asy spi.des

## Design Info =====

Initial Design Date: 31/8/2024  
Boat:  
Beneteau 40 A4 asy spi  
Client:

Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\Preliminary design

Comments:

## Design Data =====

### Asymmetric

#### Measurements

Luff length (SLU):	16.531m	
Leech length (SLE):	15.561m	
Foot length (SFL):	9.185m	
Headboard Width:	0.020m	
Three-quarter width:	4.958m	Closest Pt: 4.167m
Half width (SHW):	8.214m	Closest Pt: 7.694m
Quarter width:	9.200m	Closest Pt: 9.235m
ORC Area:	112.429m <sup>2</sup>	
IRC Area:	111.980m <sup>2</sup>	
Surface Area:	117.621m <sup>2</sup>	
Hoist height:	15.731m	
J:	5.160m	

#### Luff Curve

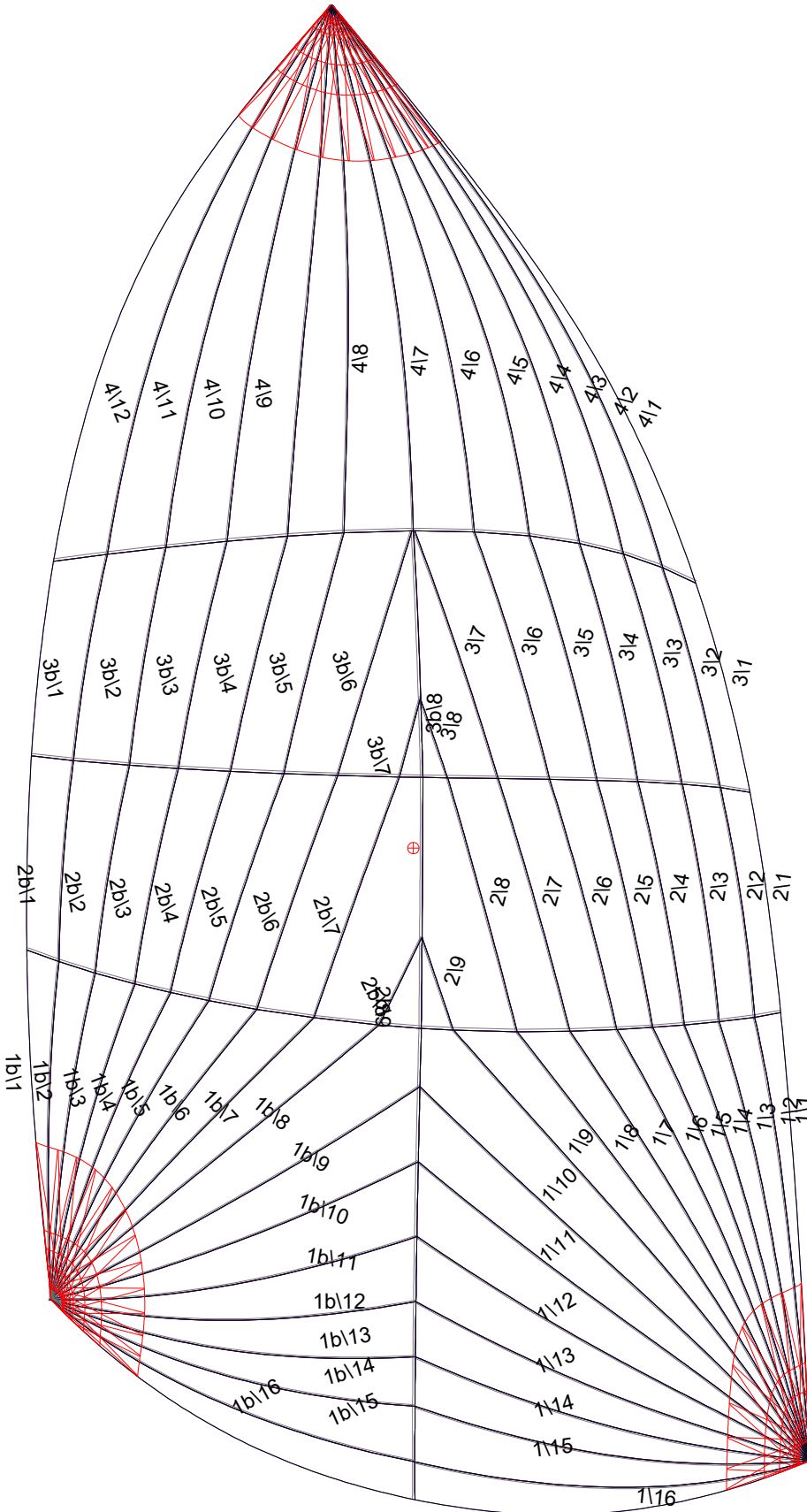
15.500m,	0.000m
11.625m,	0.000m
7.750m,	0.000m
3.875m,	0.000m
0.000m,	0.000m

#### Fanned Luff (@ 5.00% [0.389m])

100% (16.421m) :	0.000m	0.000m
88% (14.455m) :	-0.172m	0.774m
76% (12.562m) :	-0.358m	1.342m
66% (10.820m) :	-0.535m	1.702m
56% (9.205m) :	-0.680m	1.825m
47% (7.656m) :	-0.782m	1.764m
37% (6.139m) :	-0.824m	1.560m
28% (4.627m) :	-0.785m	1.244m
19% (3.106m) :	-0.635m	0.859m
10% (1.563m) :	-0.354m	0.449m
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	0.025m
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
Sail:	0.000m	0.000m	0.000m

## Total Seam Lengths (m)

Horizontal	25.63
Radial/Vertical	302.59
Bi-Radial Split	10.75

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	117.46	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