

# Mainsail: 4000524 David-1 Farr 5000 mainsail

Design Info  
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Design File:  
E:\Dropbox\Dropbox\Mike computer\Fareast Sails Production\2020\4000524 David farr 5000\4000524 David-1 Farr 5000

Initial Design Date: 2/4/2020  
Boat:

Comments:

Client:

Design Data  
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Main

Measurements

Luff geodesic: 5.950m  
 Leech geodesic: 6.429m  
 Foot geodesic: 2.550m  
 Head geodesic: 0.115m  
 Upper width (MUW): 0.526m  
 Three-quarter width (MTW): 0.946m  
 Half width (MHW): 1.650m  
 Quarter width (MQW): 2.195m  
 Foot median: 6.118m  
 ORC Mainsail area: 9.104m?  
 Surface area: 9.422m?  
 Clew height: 0.100m  
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
81.709%	0.836m	0.151m	90.000?	4.620m	5.238m	Full
60.885%	0.575m	0.224m	90.000?	3.178m	3.903m	
40.121%	0.575m	0.193m	90.000?	1.752m	2.572m	
19.468%	0.575m	0.113m	90.000?	0.345m	1.248m	

Reefing Points

1, Luff: 0.760m ; Leech: 0.793m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 2.974m ; Leech: 3.075m ;

Luff Slides

- 1, Position: 0.450m
- 2, Position: 1.056m
- 3, Position: 1.662m
- 4, Position: 2.269m
- 5, Position: 2.875m
- 6, Position: 3.481m
- 7, Position: 4.088m
- 8, Position: 4.636m
- 9, Position: 5.302m

Luff Curve

		Fanned Luff (@ 5.00% [0.127m])	Before BSeam
5.949m,	0.000m	100% (5.950m) :	0.000m -0.000m
5.208m,	-0.029m	90% (5.355m) :	0.017m 0.038m
4.462m,	-0.050m	80% (4.760m) :	0.032m 0.072m
3.714m,	-0.061m	70% (4.165m) :	0.041m 0.098m
2.975m,	-0.063m	60% (3.570m) :	0.045m 0.114m
2.217m,	-0.058m	50% (2.975m) :	0.045m 0.123m
1.487m,	-0.047m	40% (2.380m) :	0.041m 0.124m
0.741m,	-0.026m	30% (1.785m) :	0.035m 0.114m
0.000m,	0.000m	20% (1.190m) :	0.024m 0.091m
		10% (0.595m) :	0.010m 0.050m
		0% (0.000m) :	0.000m 0.000m

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## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.025m	0.013m	0.025m
Zone: 1/b	0.025m	0.013m	0.025m
Zone: 2/a	0.025m	0.013m	0.025m
Zone: 2/b	0.025m	0.013m	0.025m
Zone: 3	0.025m	0.013m	0.025m

## Edge Excesses

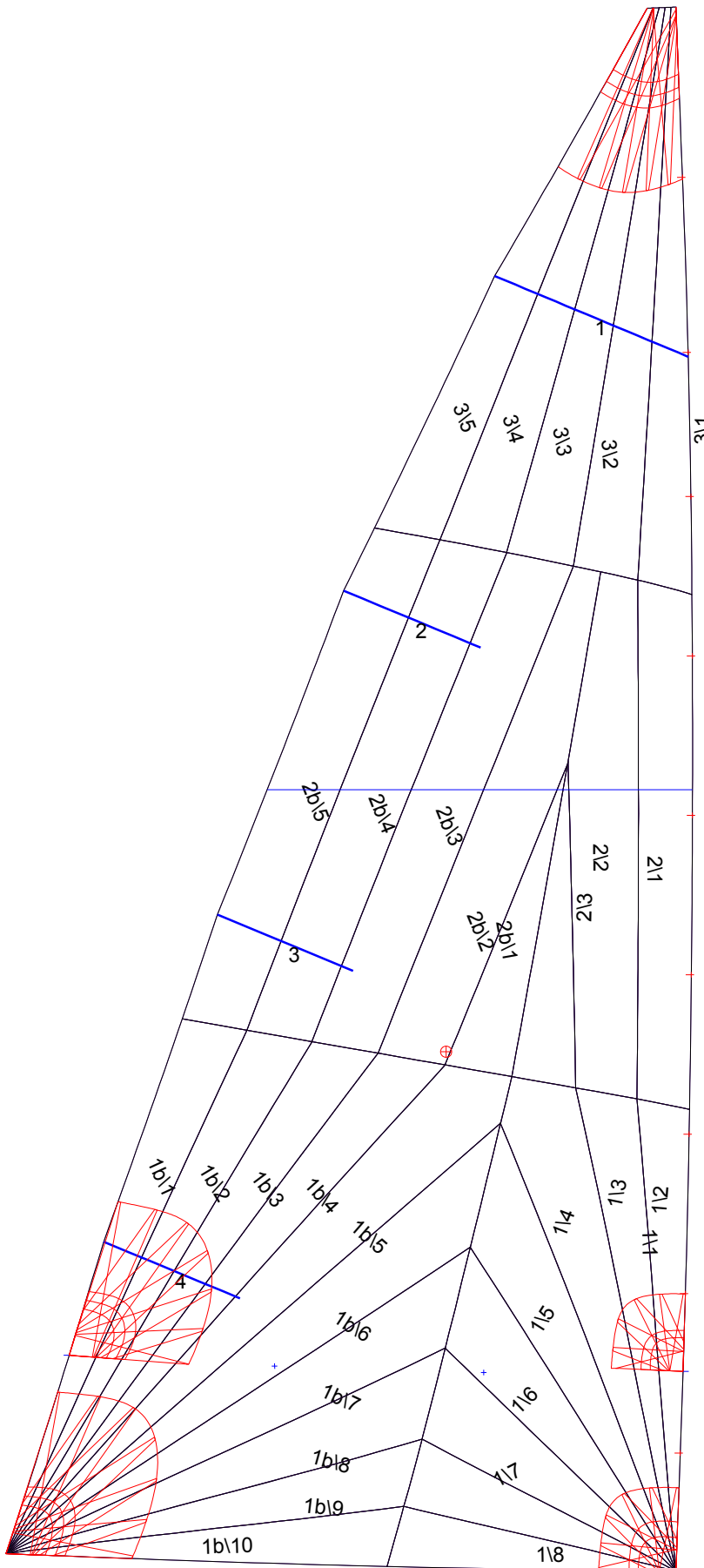
Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

## Total Seam Lengths (m)

Horizontal	3.35
Radial/Vertical	48.99
Bi-Radial Split	4.11

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	9.43	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1b\1,1b\2 1b\3,1b\4,1b\5,1b\6,1b\7 1b\8,1b\9,1b\10,2\1,2\2 2\3,2b\1,2b\2,2b\3,2b\4 2b\5,3\1,3\2,3\3,3\4 3\5



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