

# Mainsail: 7000407 Andrew Mainsail.des

Design Info  
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Design File:  
\\Nas\工程部-专用文件\Queenie-跟进客户\Fareast Sails\2023 Order\Need Confrim Order\7000407 Andrew\7000407 Ar

Initial Design Date: 12/4/2023  
Boat:

Comments:

Client:

Design Data  
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## Main

### Measurements

Luff geodesic: 33.166Ft  
Leech geodesic: 35.506Ft  
Foot geodesic: 13.609Ft  
Head geodesic: 0.377Ft  
Upper width (MUW): 2.605Ft  
Three-quarter width (MTW): 4.749Ft  
Half width (MHW): 8.249Ft  
Quarter width (MQW): 11.156Ft  
Foot median: 34.207Ft  
ORC Mainsail area: 258.422Ft?  
Surface area: 266.118Ft?  
Clew height: 0.356Ft  
Mast rake: 0.000Ft

### Battens

Position	Length	Roach	Angle	Luff	Leech	Full
81.000%	2.858Ft	0.879Ft	69.438?	26.857Ft	28.635Ft	
61.000%	4.083Ft	0.924Ft	69.438?	20.234Ft	21.565Ft	
40.500%	4.083Ft	0.804Ft	69.438?	13.446Ft	14.318Ft	
20.000%	3.402Ft	0.464Ft	69.438?	6.660Ft	7.070Ft	

### Reefing Points

1, Luff: 4.973Ft ; Leech: 5.235Ft ; Offset: 0.000Ft ; Number Eyelets: 2

### Draft Stripes

1, Luff: 10.942Ft ; Leech: 11.243Ft ;  
2, Luff: 21.885Ft ; Leech: 22.947Ft ;

### Luff Slides

1, Position: 2.213Ft  
2, Position: 4.427Ft  
3, Position: 6.640Ft  
4, Position: 8.904Ft  
5, Position: 11.168Ft  
6, Position: 13.432Ft  
7, Position: 15.696Ft  
8, Position: 17.960Ft  
9, Position: 20.224Ft  
10, Position: 22.434Ft  
11, Position: 24.643Ft  
12, Position: 26.852Ft  
13, Position: 28.957Ft  
14, Position: 31.061Ft

### Luff Curve

		Fanned Luff (@ 5.00% [0.678Ft])	Before BSeam
33.165Ft,	0.000Ft	100% (33.166Ft) :	0.000Ft
29.032Ft,	-0.077Ft	90% (29.850Ft) :	0.140Ft
24.874Ft,	-0.131Ft	80% (26.533Ft) :	0.268Ft
20.705Ft,	-0.155Ft	70% (23.216Ft) :	0.363Ft
16.582Ft,	-0.158Ft	60% (19.900Ft) :	0.414Ft
12.357Ft,	-0.146Ft	50% (16.583Ft) :	0.420Ft
8.291Ft,	-0.117Ft	40% (13.266Ft) :	0.385Ft
4.133Ft,	-0.066Ft	30% (9.950Ft) :	0.312Ft
0.000Ft,	0.000Ft	20% (6.633Ft) :	0.216Ft
		10% (3.317Ft) :	0.103Ft
		0% (0.000Ft) :	0.000Ft

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## Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.125Ft	0.049Ft	0.125Ft
Zone: 1/b	0.125Ft	0.049Ft	0.125Ft
Zone: 2/a	0.125Ft	0.049Ft	0.125Ft
Zone: 2/b	0.125Ft	0.049Ft	0.125Ft
Zone: 3	0.125Ft	0.049Ft	0.125Ft

## Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000Ft	0.000Ft	0.000Ft

## Total Seam Lengths (Ft)

Horizontal	15.77
Radial/Vertical	370.86
Bi-Radial Split	24.50

## Materials

Material	Area (Ft <sup>2</sup> )	Panels
Material 1	266.59	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,1b\8 1b\9,1b\10,1b\11,1b\12,2\1 2\2,2\3,2\4,2\5,2b\1 2b\2,2b\3,2b\4,2b\5,3\1 3\2,3\3,3\4,3\5,3\6

