

# Mainsail: 8001024 Andrew-1 triradial Mainsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8001024 Andrew\8

Initial Design Date: 30/10/2024  
Boat:

Comments:

Client:

Design Data  
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Main

Measurements

Luff geodesic: 17.028m  
 Leech geodesic: 17.954m  
 Foot geodesic: 5.989m  
 Head geodesic: 0.153m  
 Upper width (MUW): 1.089m  
 Three-quarter width (MTW): 1.992m  
 Half width (MHW): 3.573m  
 Quarter width (MQW): 4.890m  
 Foot median: 17.398m  
 ORC Mainsail area: 57.612m?  
 Surface area: 58.766m?  
 Clew height: 0.100m  
 Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
83.333%	1.457m	0.224m	72.463?	14.182m	14.913m	Full
66.667%	2.615m	0.330m	72.463?	11.345m	11.931m	Full
50.000%	3.614m	0.322m	72.463?	8.508m	8.948m	Full
33.333%	4.507m	0.253m	72.463?	5.671m	5.965m	Full
16.667%	5.289m	0.135m	72.463?	2.835m	2.983m	Full

Reefing Points

- 1, Luff: 2.315m ; Leech: 2.411m ; Offset: 0.000m ; Number Eyelets: 0
- 2, Luff: 4.681m ; Leech: 4.873m ; Offset: 0.000m ; Number Eyelets: 0
- 3, Luff: 7.150m ; Leech: 7.445m ; Offset: 0.000m ; Number Eyelets: 0

Draft Stripes

- 1, Luff: 4.255m ; Leech: 4.300m ;
- 2, Luff: 8.358m ; Leech: 8.606m ;
- 3, Luff: 12.768m ; Leech: 13.280m ;

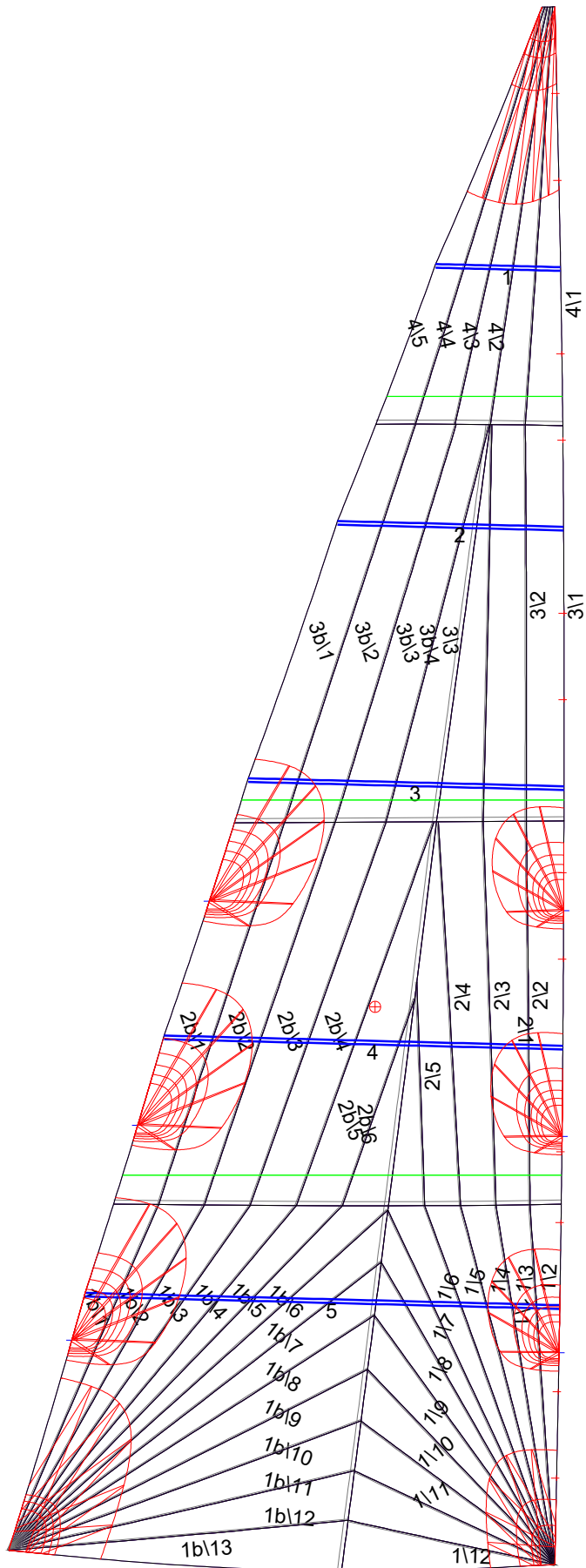
Luff Slides

- 1, Position: 0.945m
- 2, Position: 1.890m
- 3, Position: 3.738m
- 4, Position: 4.512m
- 5, Position: 6.617m
- 6, Position: 7.562m
- 7, Position: 9.453m
- 8, Position: 10.399m
- 9, Position: 12.290m
- 10, Position: 13.236m
- 11, Position: 15.131m
- 12, Position: 16.079m

Luff Curve

		Fanned Luff (@ 5.00% [0.298m])	Before BSeam
17.027m,	0.000m	100% (17.028m) :	0.000m
14.905m,	-0.049m	90% (15.326m) :	0.068m
12.770m,	-0.083m	80% (13.622m) :	0.125m
10.630m,	-0.098m	70% (11.920m) :	0.166m
8.514m,	-0.100m	60% (10.217m) :	0.189m
6.344m,	-0.093m	50% (8.514m) :	0.196m
4.257m,	-0.074m	40% (6.811m) :	0.188m
2.122m,	-0.042m	30% (5.108m) :	0.163m
0.000m,	0.000m	20% (3.405m) :	0.122m
		10% (1.703m) :	0.063m
		0% (0.000m) :	0.000m

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## Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.045m	0.015m	0.045m
Zone: 1/b	0.045m	0.015m	0.045m
Zone: 2/a	0.045m	0.015m	0.045m
Zone: 2/b	0.045m	0.015m	0.045m
Zone: 3/a	0.045m	0.015m	0.045m
Zone: 3/b	0.045m	0.015m	0.045m
Zone: 4	0.045m	0.015m	0.045m

## Edge Excesses

Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

## Total Seam Lengths (m)

Horizontal	10.95
Radial/Vertical	170.54
Bi-Radial Split	13.04

## Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	58.82	1i1,1i2,1i3,1i4,1i5 1i6,1i7,1i8,1i9,1i10 1i11,1i12,1b1,1b2,1b3 1b4,1b5,1b6,1b7,1b8 1b9,1b10,1b11,1b12,1b13 2i1,2i2,2i3,2i4,2i5 2b6,2b5,2b4,2b3,2b2 2b1,3i1,3i2,3i3,3b4 3b3,3b2,3b1,4i1,4i2 4i3,4i4,4i5