

Mainsail: 7000407 Andrew MainsailV1.des

Design Info
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Design File:
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Initial Design Date: 12/4/2023
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 34.313Ft
 Leech geodesic: 36.894Ft
 Foot geodesic: 14.583Ft
 Head geodesic: 0.377Ft
 Upper width (MUW): 2.598Ft
 Three-quarter width (MTW): 4.750Ft
 Half width (MHW): 8.251Ft
 Quarter width (MQW): 11.506Ft
 Foot median: 35.415Ft
 ORC Mainsail area: 274.530Ft?
 Surface area: 280.167Ft?
 Clew height: 0.358Ft
 Mast rake: 0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	4.167Ft	0.640Ft	68.852?	27.433Ft	29.406Ft	Full
60.000%	4.359Ft	0.425Ft	68.852?	20.573Ft	22.054Ft	
40.000%	4.359Ft	0.237Ft	68.852?	13.714Ft	14.703Ft	
20.000%	3.633Ft	0.121Ft	68.852?	6.857Ft	7.351Ft	

Reefing Points

1, Luff: 5.145Ft ; Leech: 5.535Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Draft Stripes

1, Luff: 11.320Ft ; Leech: 11.862Ft ;
 2, Luff: 22.642Ft ; Leech: 24.019Ft ;

Luff Slides

1, Position: 2.290Ft
 2, Position: 4.580Ft
 3, Position: 6.870Ft
 4, Position: 9.212Ft
 5, Position: 11.554Ft
 6, Position: 13.896Ft
 7, Position: 16.239Ft
 8, Position: 18.581Ft
 9, Position: 20.924Ft
 10, Position: 23.210Ft
 11, Position: 25.495Ft
 12, Position: 27.781Ft
 13, Position: 29.958Ft
 14, Position: 32.136Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.726Ft])	Before BSeam
34.312Ft,	0.000Ft	100% (34.313Ft) :	0.000Ft
30.036Ft,	-0.092Ft	90% (30.883Ft) :	0.051Ft
25.734Ft,	-0.152Ft	80% (27.450Ft) :	0.096Ft
21.421Ft,	-0.172Ft	70% (24.020Ft) :	0.117Ft
17.155Ft,	-0.169Ft	60% (20.588Ft) :	0.120Ft
12.785Ft,	-0.149Ft	50% (17.157Ft) :	0.113Ft
8.578Ft,	-0.113Ft	40% (13.725Ft) :	0.100Ft
4.276Ft,	-0.061Ft	30% (10.294Ft) :	0.079Ft
0.000Ft,	0.000Ft	20% (6.862Ft) :	0.053Ft
		10% (3.432Ft) :	0.025Ft
		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	15.72
Radial/Vertical	387.64
Bi-Radial Split	25.36

Materials

Material	Area (Ft ²)	Panels
Material 1	280.69	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

