

Mainsail: 7000407 Andrew MainsailV2.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:	10.459m
Leech geodesic:	11.479m
Foot geodesic:	4.445m
Head geodesic:	0.115m
Upper width (MUW):	0.793m
Three-quarter width (MTW):	1.448m
Half width (MHW):	2.514m
Quarter width (MQW):	3.500m
Foot median:	10.917m
ORC Mainsail area:	25.487m?
Surface area:	26.044m?
Clew height:	-0.137m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.268m	0.190m	66.068?	8.369m	9.150m	Full
60.000%	1.329m	0.133m	66.068?	6.278m	6.863m	
40.000%	1.329m	0.067m	66.068?	4.185m	4.575m	
20.000%	1.107m	0.037m	66.068?	2.093m	2.288m	

Reefing Points

1, Luff: 1.570m ; Leech: 1.720m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.453m ; Leech: 3.879m ;
2, Luff: 6.904m ; Leech: 7.571m ;

Luff Slides

- 1, Position: 0.698m
- 2, Position: 1.396m
- 3, Position: 2.094m
- 4, Position: 2.808m
- 5, Position: 3.522m
- 6, Position: 4.236m
- 7, Position: 4.950m
- 8, Position: 5.664m
- 9, Position: 6.378m
- 10, Position: 7.074m
- 11, Position: 7.771m
- 12, Position: 8.468m
- 13, Position: 9.132m
- 14, Position: 9.795m

Luff Curve

		Fanned Luff (@ 5.00% [0.221m])	Before BSeam
10.458m,	0.000m	100% (10.459m) :	0.000m
9.155m,	-0.028m	90% (9.413m) :	0.016m
7.844m,	-0.046m	80% (8.367m) :	0.087m
6.529m,	-0.052m	70% (7.321m) :	0.116m
5.229m,	-0.052m	60% (6.275m) :	0.129m
3.897m,	-0.045m	50% (5.229m) :	0.130m
2.615m,	-0.034m	40% (4.184m) :	0.118m
1.303m,	-0.019m	30% (3.138m) :	0.096m
0.000m,	0.000m	20% (2.092m) :	0.066m
		10% (1.046m) :	0.031m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.038m	0.015m	0.038m
Zone: 1/b	0.038m	0.015m	0.038m
Zone: 2/a	0.038m	0.015m	0.038m
Zone: 2/b	0.038m	0.015m	0.038m
Zone: 3	0.038m	0.015m	0.038m

Edge Excesses

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

Total Seam Lengths (m)

Horizontal	4.74
Radial/Vertical	118.60
Bi-Radial Split	7.88

Materials

Material	Area (m ²)	Panels
Material 1	26.09	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

