

Mainsail: 8001024 Andrew-1 triradial MainsailV2.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 m

Initial Design Date: 4/12/2024
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: 3.915m ; Leech: 4.076m ; 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

Zone:	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
Sail:	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 ²)	Panels
Material 1	58.82	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\12,1b\13 2\1,2\2,2\3,2\4,2\5 2b\6,2b\5,2b\4,2b\3,2b\2 2b\1,3\1,3\2,3\3,3b\4 3b\3,3b\2,3b\1,4\1,4\2 4\3,4\4,4\5

