

Mainsail: 6000409 Alec - V4.des

Design Info
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Design File:
F:\Dropbox\Dropbox\Fareast Sails\2022 Order\Need confirm order\6000409 Alec\6000409 Alec - V4.des

Initial Design Date: 22/4/2022
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic: 11.980m
 Leech geodesic: 12.554m
 Foot geodesic: 4.580m
 Head geodesic: 0.600m
 Upper width (MUW): 1.209m
 Three-quarter width (MTW): 1.938m
 Half width (MHW): 3.088m
 Quarter width (MQW): 3.935m
 Foot median: 12.287m
 ORC Mainsail area: 34.499m?
 Surface area: 35.901m?
 Clew height: 0.100m
 Mast rake: 0.523m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
100.000%	0.825m	0.000m	113.836?	11.422m	12.497m	Full
83.600%	1.629m	0.290m	72.982?	9.995m	10.448m	Full
67.000%	2.480m	0.403m	72.982?	8.010m	8.373m	Full
50.300%	3.152m	0.385m	72.982?	6.014m	6.286m	Full
33.600%	3.723m	0.320m	72.982?	4.018m	4.199m	Full
17.000%	4.180m	0.186m	72.982?	2.033m	2.125m	Full

Reefing Points

1, Luff: 1.796m ; Leech: 1.849m ; Offset: 0.000m ; Number Eyelets: 4
 2, Luff: 3.593m ; Leech: 3.703m ; Offset: 0.000m ; Number Eyelets: 3

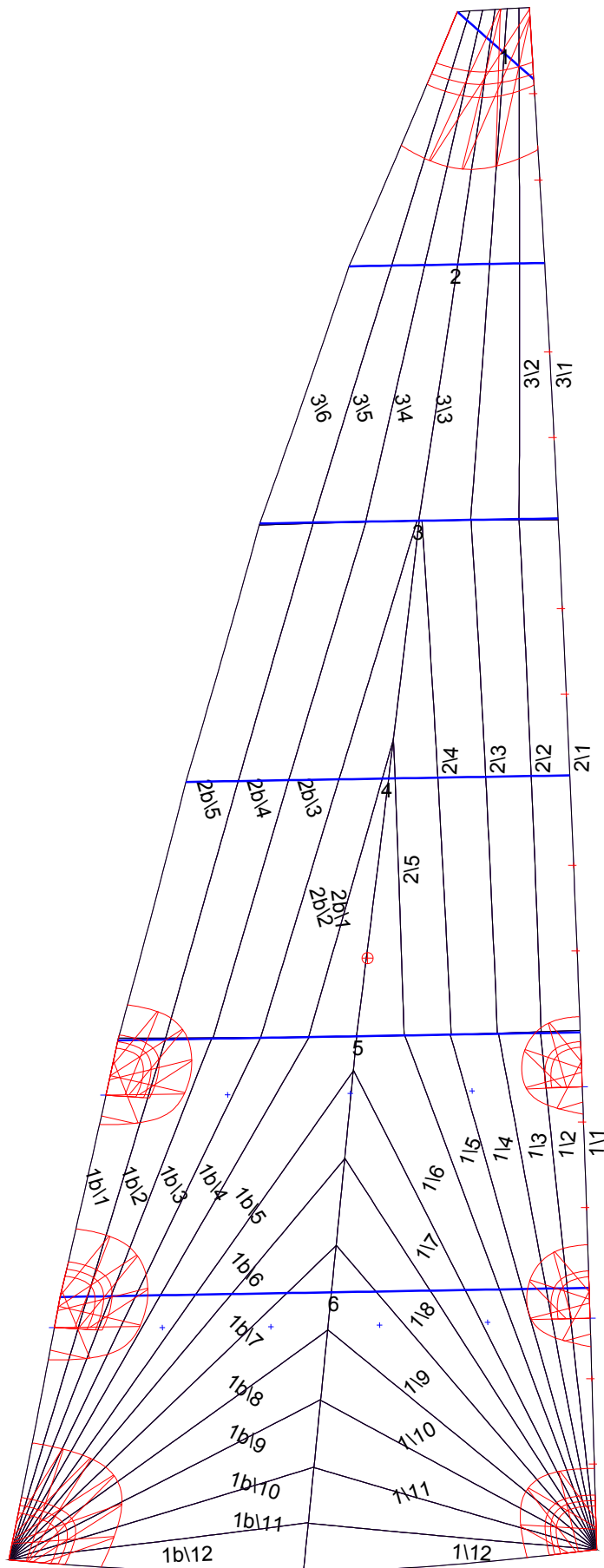
Luff Slides

1, Position: 0.663m
 2, Position: 1.326m
 3, Position: 2.654m
 4, Position: 3.319m
 5, Position: 4.648m
 6, Position: 5.312m
 7, Position: 6.642m
 8, Position: 7.306m
 9, Position: 8.636m
 10, Position: 9.301m
 11, Position: 10.637m
 12, Position: 11.309m

Luff Curve

		Fanned Luff (@ 5.00% [0.228m])	Before BSeam
11.980m,	0.000m	100% (11.980m) :	0.000m
10.487m,	-0.025m	90% (10.782m) :	0.048m
8.985m,	-0.043m	80% (9.584m) :	0.093m
7.479m,	-0.052m	70% (8.386m) :	0.127m
5.990m,	-0.054m	60% (7.188m) :	0.144m
4.464m,	-0.050m	50% (5.990m) :	0.145m
2.995m,	-0.040m	40% (4.792m) :	0.130m
1.493m,	-0.022m	30% (3.594m) :	0.105m
0.000m,	0.000m	20% (2.396m) :	0.071m
		10% (1.198m) :	0.033m
		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
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	6.20
Radial/Vertical	128.27
Bi-Radial Split	8.54

Materials

Material	Area (m ²)	Panels
Material 1	35.96	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