

Mainsail: 6000409 Alec - V3.des

Design Info
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Design File:
F:\Dropbox\Dropbox\Fareast Sails\2022 Order\待处理订单\6000409 Alec\6000409 Alec - V3.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):	1.216m
Three-quarter width (MTW):	1.947m
Half width (MHW):	3.082m
Quarter width (MQW):	3.930m
Foot median:	12.287m
ORC Mainsail area:	34.498m ²
Surface area:	35.899m ²
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%	1.647m	0.306m	72.982?	9.995m	10.448m	Full
67.000%	2.478m	0.401m	72.982?	8.010m	8.373m	Full
50.300%	3.145m	0.378m	72.982?	6.014m	6.286m	Full
33.600%	3.716m	0.314m	72.982?	4.018m	4.199m	Full
17.000%	4.176m	0.183m	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: 3.704m ; Offset: 0.000m ; Number Eyelets: 3

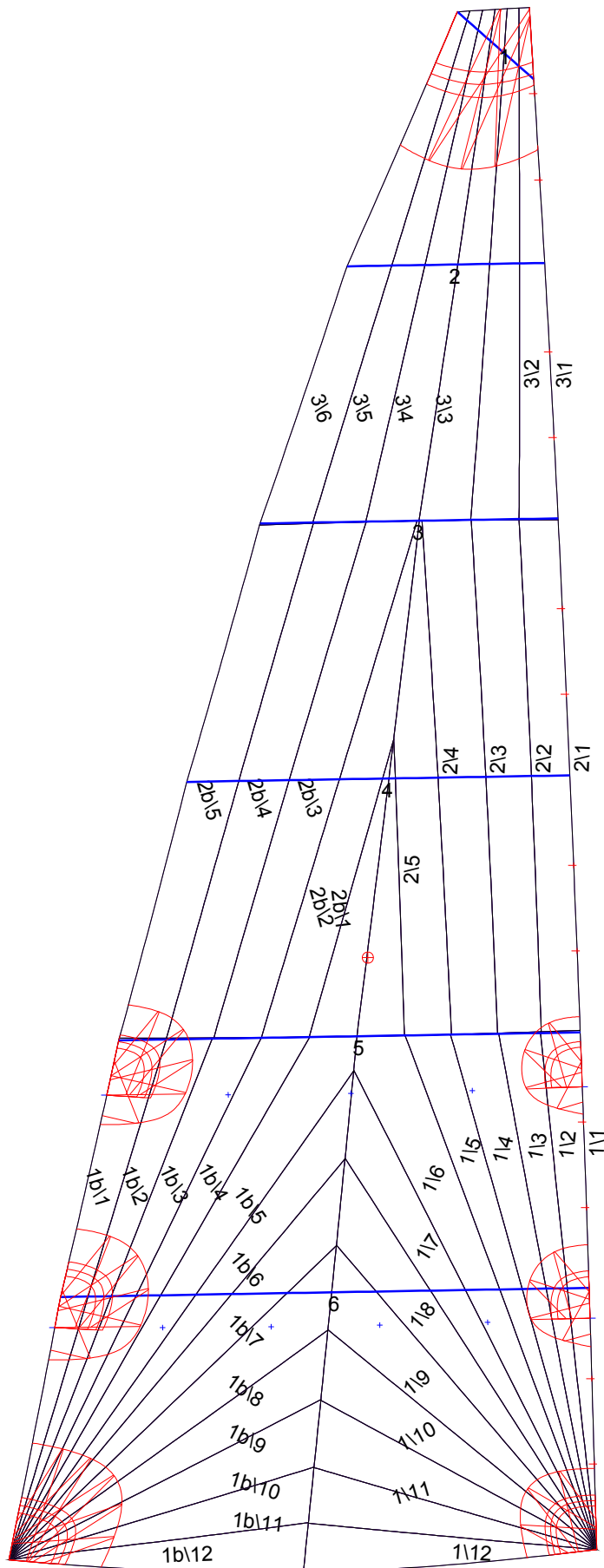
Luff Slides

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) :	0.144m
2.995m,	-0.040m	40% (4.792m) :	0.130m
1.493m,	-0.022m	30% (3.594m) :	0.104m
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	6.19
Radial/Vertical	128.27
Bi-Radial Split	8.54

Materials

Material	Area (m ²)	Panels
Material 1	35.95	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