

# Mainsail: 8000201 Alex-1 Catalina C380 Mainsail.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000201 Alex Cata

Initial Design Date: 1/3/2024  
Boat:  
Catalina C380  
Client:

Comments:

Design Data  
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Main

Measurements

Luff geodesic: 13.533m  
Leech geodesic: 14.273m  
Foot geodesic: 4.752m  
Head geodesic: 0.135m  
Upper width (MUW): 0.918m  
Three-quarter width (MTW): 1.684m  
Half width (MHW): 2.970m  
Quarter width (MQW): 3.971m  
Foot median: 13.854m  
ORC Mainsail area: 37.460m?  
Surface area: 38.498m?  
Clew height: 0.100m  
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.459m	0.287m	72.291?	10.825m	11.375m	Full
60.000%	2.563m	0.398m	72.291?	8.123m	8.532m	Full
40.000%	3.448m	0.351m	72.291?	5.422m	5.688m	Full
20.000%	4.162m	0.203m	72.291?	2.722m	2.844m	Full

Reefing Points

1, Luff: 1.786m ; Leech: 1.847m ; Offset: 0.000m ; Number Eyelets: 3  
2, Luff: 3.720m ; Leech: 3.848m ; Offset: 0.000m ; Number Eyelets: 3  
3, Luff: 5.750m ; Leech: 5.951m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 3.382m ; Leech: 3.392m ;  
2, Luff: 6.765m ; Leech: 6.932m ;  
3, Luff: 10.148m ; Leech: 10.519m ;

Luff Slides

1, Position: 0.750m  
2, Position: 1.462m  
3, Position: 3.424m  
4, Position: 4.493m  
5, Position: 6.299m  
6, Position: 7.202m  
7, Position: 9.009m  
8, Position: 9.912m  
9, Position: 11.722m  
10, Position: 12.627m

Luff Curve

		Fanned Luff (@ 5.00% [0.237m])	Before BSeam
13.532m,	0.000m	100% (13.533m) :	0.000m
11.846m,	-0.036m	90% (12.180m) :	0.058m
10.149m,	-0.062m	80% (10.826m) :	0.108m
8.448m,	-0.073m	70% (9.473m) :	0.142m
6.766m,	-0.074m	60% (8.120m) :	0.161m
5.042m,	-0.069m	50% (6.767m) :	0.165m
3.383m,	-0.055m	40% (5.413m) :	0.156m
1.686m,	-0.031m	30% (4.060m) :	0.133m
0.000m,	0.000m	20% (2.706m) :	0.098m
		10% (1.353m) :	0.051m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone:	Split	Radial	Cross
1	0.035m	0.035m	0.035m

Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	32.64
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	38.49	1,2,3,4,5 6,7,8,9,10 11,12

