

Mainsail: 7001227 John-1 catalina22 mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\7001227 John Cat

Initial Design Date: 20/2/2024
Boat:
Catalina 22
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 6.340m
Leech geodesic: 6.972m
Foot geodesic: 2.930m
Head geodesic: 0.102m
Upper width (MUW): 0.508m
Three-quarter width (MTW): 0.925m
Half width (MHW): 1.676m
Quarter width (MQW): 2.348m
Foot median: 6.578m
ORC Mainsail area: 10.242m?
Surface area: 10.505m?
Clew height: 0.000m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.530m	0.084m	66.378?	5.070m	5.567m	
60.000%	0.762m	0.112m	66.378?	3.802m	4.176m	
40.000%	0.762m	0.091m	66.378?	2.535m	2.784m	
20.000%	0.610m	0.050m	66.378?	1.267m	1.392m	

Reefing Points

1, Luff: 0.951m ; Leech: 1.027m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 1.902m ; Leech: 2.053m ; Offset: 0.000m ; Number Eyelets: 2

Draft Stripes

1, Luff: 2.092m ; Leech: 2.239m ;
2, Luff: 4.184m ; Leech: 4.519m ;

Luff Slides

1, Position: 0.635m
2, Position: 1.241m
3, Position: 1.799m
4, Position: 2.496m
5, Position: 3.174m
6, Position: 3.809m
7, Position: 4.443m
8, Position: 5.709m

Luff Curve

		Fanned Luff (@ 5.00% [0.146m])	Before BSeam
6.340m,	0.000m	100% (6.340m) :	0.000m
4.787m,	-0.027m	90% (5.706m) :	0.010m
3.173m,	-0.032m	80% (5.072m) :	0.019m
1.586m,	-0.021m	70% (4.438m) :	0.024m
0.000m,	0.000m	60% (3.804m) :	0.026m
		50% (3.170m) :	0.025m
		40% (2.536m) :	0.022m
		30% (1.902m) :	0.017m
		20% (1.268m) :	0.011m
		10% (0.634m) :	0.004m
		0% (0.000m) :	0.000m

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Seam Allowances			
	Split	Radial	Cross
Zone: 1	0.000m	0.000m	0.025m
Zone: 2	0.000m	0.000m	0.025m

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

Total Seam Lengths (m)

Horizontal	7.92
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m ²)	Panels
Material 1	10.51	1\1,2\1,2\2,2\3,2\4 2\5

