

Mainsail: 8001023 Eduardo Catalina Capri 18 Mainsail.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8001023 Eduardo

Initial Design Date: 26/10/2024
Boat:
Catalina Capri 18
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 19.941Ft
Leech geodesic: 21.476Ft
Foot geodesic: 8.369Ft
Head geodesic: 0.338Ft
Upper width (MUW): 1.602Ft
Three-quarter width (MTW): 2.893Ft
Half width (MHW): 5.095Ft
Quarter width (MQW): 6.905Ft
Foot median: 20.461Ft
ORC Mainsail area: 95.907Ft?
Surface area: 98.691Ft?
Clew height: 0.167Ft
Mast rake: 0.167Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.667Ft	0.447Ft	90.000?	15.178Ft	17.123Ft	
60.000%	2.333Ft	0.619Ft	90.000?	10.576Ft	12.842Ft	
40.000%	2.500Ft	0.563Ft	90.000?	5.995Ft	8.562Ft	
20.000%	2.000Ft	0.333Ft	90.000?	1.431Ft	4.281Ft	

Reefing Points

1, Luff: 3.036Ft ; Leech: 3.134Ft ; Offset: -0.125Ft ; Number Eyelets: 2

Draft Stripes

1, Luff: 9.970Ft ; Leech: 10.379Ft ;

Luff Slides

- 1, Position: 1.968Ft
- 2, Position: 3.969Ft
- 3, Position: 5.969Ft
- 4, Position: 7.970Ft
- 5, Position: 9.970Ft
- 6, Position: 11.971Ft
- 7, Position: 13.972Ft
- 8, Position: 15.972Ft
- 9, Position: 17.973Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.416Ft])	Before BSeam
19.940Ft,	0.000Ft	100% (19.941Ft) :	0.000Ft
15.953Ft,	-0.073Ft	90% (17.947Ft) :	0.072Ft
11.965Ft,	-0.110Ft	80% (15.953Ft) :	0.137Ft
7.977Ft,	-0.105Ft	70% (13.959Ft) :	0.181Ft
3.988Ft,	-0.064Ft	60% (11.965Ft) :	0.206Ft
0.000Ft,	0.000Ft	50% (9.970Ft) :	0.213Ft
		40% (7.976Ft) :	0.204Ft
		30% (5.982Ft) :	0.179Ft
		20% (3.988Ft) :	0.135Ft
		10% (1.994Ft) :	0.072Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances			
	Split	Radial	Cross
Zone: 1	0.082Ft	0.082Ft	0.082Ft
Zone: 2	0.082Ft	0.082Ft	0.082Ft

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

Total Seam Lengths (Ft)

Horizontal	31.27
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	98.42	1\1,1\2,2\1,2\2,2\3 2\4,2\5

