

Mainsail: 8000224 Dan Catalina 36 fullbattMainsail Dutchman system V1.0

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8000224 Dan Cata

Initial Design Date: 27/2/2024
Boat:
Catalina 36
Dutchman system eyelets
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic:	38.999Ft
Leech geodesic:	40.581Ft
Foot geodesic:	12.001Ft
Head geodesic:	0.377Ft
Upper width (MUW):	2.396Ft
Three-quarter width (MTW):	4.347Ft
Half width (MHW):	7.538Ft
Quarter width (MQW):	10.068Ft
Foot median:	39.468Ft
ORC Mainsail area:	274.525Ft ²
Surface area:	279.170Ft ²
Clew height:	-1.892Ft
Mast rake:	0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	3.771Ft	0.801Ft	74.801?	31.183Ft	32.395Ft	Full
60.000%	6.505Ft	1.071Ft	74.801?	23.385Ft	24.296Ft	Full
40.000%	8.731Ft	0.944Ft	74.801?	15.588Ft	16.198Ft	Full
20.000%	10.546Ft	0.545Ft	74.801?	7.793Ft	8.099Ft	Full

Reefing Points

- 1, Luff: 4.756Ft ; Leech: 4.869Ft ; Offset: 0.000Ft ; Number Eyelets: 2
- 2, Luff: 10.722Ft ; Leech: 10.975Ft ; Offset: 0.000Ft ; Number Eyelets: 2

Draft Stripes

- 1, Luff: 12.866Ft ; Leech: 12.928Ft ;
- 2, Luff: 25.735Ft ; Leech: 26.303Ft ;

Luff Slides

- 1, Position: 2.597Ft
- 2, Position: 5.195Ft
- 3, Position: 10.390Ft
- 4, Position: 12.989Ft
- 5, Position: 18.186Ft
- 6, Position: 20.785Ft
- 7, Position: 25.983Ft
- 8, Position: 28.583Ft
- 9, Position: 33.788Ft
- 10, Position: 36.393Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.598Ft])	Before BSeam
38.998Ft,	0.000Ft	100% (38.999Ft) :	0.000Ft
34.138Ft,	-0.090Ft	90% (35.100Ft) :	0.136Ft
29.248Ft,	-0.154Ft	80% (31.199Ft) :	0.253Ft
24.347Ft,	-0.182Ft	70% (27.300Ft) :	0.327Ft
19.499Ft,	-0.185Ft	60% (23.400Ft) :	0.364Ft
14.531Ft,	-0.172Ft	50% (19.500Ft) :	0.376Ft
9.749Ft,	-0.137Ft	40% (15.600Ft) :	0.364Ft
4.860Ft,	-0.078Ft	30% (11.700Ft) :	0.324Ft
0.000Ft,	0.000Ft	20% (7.799Ft) :	0.249Ft
		10% (3.900Ft) :	0.138Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.000Ft	0.000Ft	0.082Ft

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

Total Seam Lengths (Ft)

Horizontal	74.52
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (Ft ²)	Panels
Material 1	278.90	1,2,3,4,5 6,7,8,9,10 11

