

Mainsail: 7001116 Dragan-1 Catalina 42 Main MKII.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7001116 Dragan\70

Initial Design Date: 20/8/2018
Boat:

Comments:

Client:

Design Data
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Main

Measurements

Luff geodesic:	46.280Ft
Leech geodesic:	48.499Ft
Foot geodesic:	15.259Ft
Head geodesic:	0.443Ft
Upper width (MUW):	3.068Ft
Three-quarter width (MTW):	5.588Ft
Half width (MHW):	9.737Ft
Quarter width (MQW):	12.883Ft
Foot median:	47.274Ft
ORC Mainsail area:	417.488Ft?
Surface area:	427.614Ft?
Clew height:	0.673Ft
Mast rake:	0.000Ft

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
82.000%	4.452Ft	0.961Ft	73.661?	37.924Ft	39.630Ft	Full
62.000%	8.124Ft	1.367Ft	73.661?	28.670Ft	29.964Ft	Full
42.000%	10.977Ft	1.226Ft	73.661?	19.419Ft	20.298Ft	Full
22.000%	13.260Ft	0.758Ft	73.661?	10.170Ft	10.632Ft	Full

Reefing Points

- 1, Luff: 5.644Ft ; Leech: 5.815Ft ; Offset: -0.167Ft ; Number Eyelets: 3
- 2, Luff: 12.259Ft ; Leech: 12.617Ft ; Offset: -0.167Ft ; Number Eyelets: 3

Draft Stripes

- 1, Luff: 15.266Ft ; Leech: 15.406Ft ;
- 2, Luff: 30.535Ft ; Leech: 31.359Ft ;

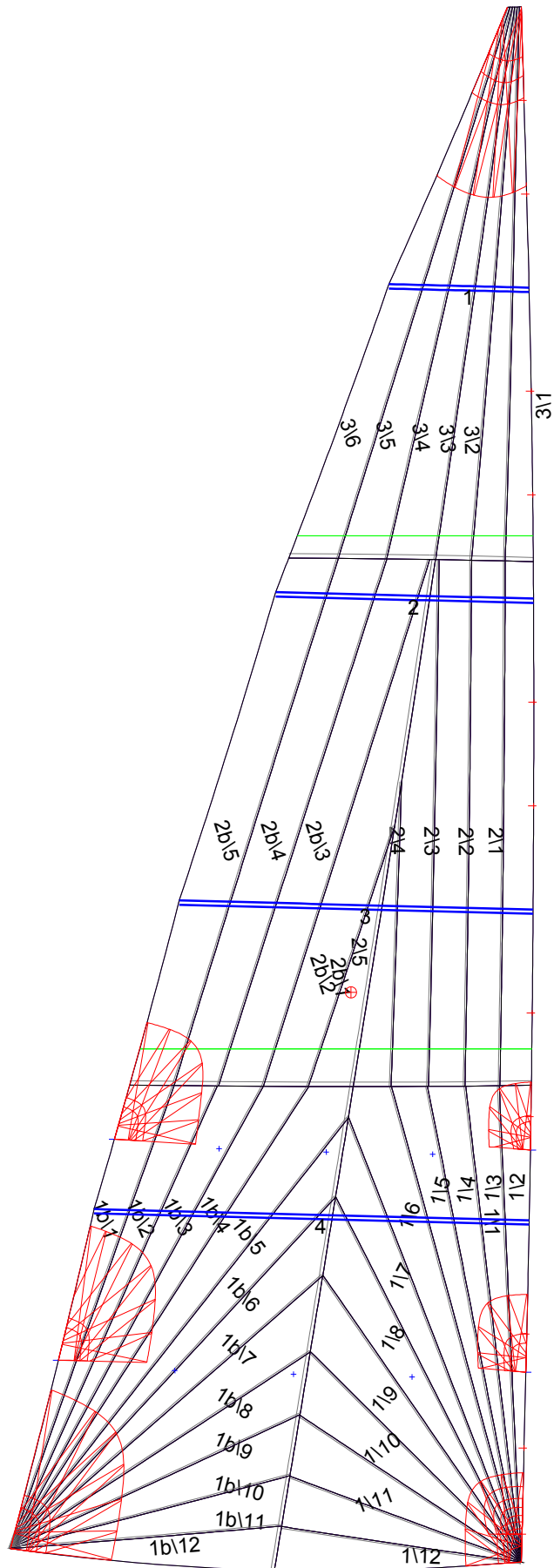
Luff Slides

- 1, Position: 3.390Ft
- 2, Position: 6.780Ft
- 3, Position: 13.253Ft
- 4, Position: 16.336Ft
- 5, Position: 22.502Ft
- 6, Position: 25.586Ft
- 7, Position: 31.755Ft
- 8, Position: 34.839Ft
- 9, Position: 40.709Ft
- 10, Position: 43.494Ft

Luff Curve

		Fanned Luff (@ 5.00% [0.760Ft])	Before BSeam
46.275Ft,	0.000Ft	100% (46.279Ft) :	0.000Ft
34.706Ft,	-0.300Ft	90% (41.653Ft) :	0.209Ft
23.138Ft,	-0.365Ft	80% (37.024Ft) :	0.404Ft
11.569Ft,	-0.261Ft	70% (32.397Ft) :	0.548Ft
0.000Ft,	0.000Ft	60% (27.768Ft) :	0.622Ft
		50% (23.140Ft) :	0.632Ft
		40% (18.511Ft) :	0.589Ft
		30% (13.883Ft) :	0.502Ft
		20% (9.255Ft) :	0.360Ft
		10% (4.628Ft) :	0.174Ft
		0% (0.000Ft) :	0.000Ft

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.105Ft	0.052Ft	0.131Ft
Zone: 1/b	0.105Ft	0.052Ft	0.131Ft
Zone: 2/a	0.105Ft	0.052Ft	0.131Ft
Zone: 2/b	0.105Ft	0.052Ft	0.131Ft
Zone: 3	0.105Ft	0.052Ft	0.131Ft

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000Ft	0.000Ft	0.000Ft

Total Seam Lengths (Ft)

Horizontal	20.05
Radial/Vertical	468.08
Bi-Radial Split	31.71

Materials

Material	Area (Ft ²)	Panels
Material 1	428.34	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