

Asymmetric: 8001119 Dragan catalina 42 codezeroV2.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8001119 Dragan C

Initial Design Date: 16/12/2024
Boat:
catalina 42 codezero
Client:

Comments:

Design Data
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Asymmetric

Measurements

Luff length (SLU):	15.550m	
Leech length (SLE):	13.927m	
Foot length (SFL):	9.860m	
Headboard Width:	0.015m	
Three-quarter width:	3.410m	Closest Pt: 2.853m
Half width (SHW):	6.202m	Closest Pt: 5.363m
Quarter width:	8.289m	Closest Pt: 7.381m
ORC Area:	85.159m ²	
IRC Area:	84.818m ²	
Surface Area:	82.547m ²	
Hoist height:	16.000m	
J:	5.800m	

Luff Curve		Fanned Luff (@ 5.00% [0.464m])	Before BSeam
15.500m,	0.000m	100% (15.527m) :	0.000m
11.625m,	0.000m	90% (13.973m) :	0.071m
7.750m,	0.000m	80% (12.420m) :	0.146m
3.875m,	0.000m	70% (10.867m) :	0.229m
0.000m,	0.000m	60% (9.315m) :	0.292m
		50% (7.763m) :	0.319m
		40% (6.211m) :	0.310m
		30% (4.659m) :	0.270m
		20% (3.106m) :	0.207m
		10% (1.553m) :	0.121m
		0% (0.000m) :	0.000m

Section Data

Position	Camber	Draft	Twist	Entry	Exit	Roach	Luff Off	Luff Roach	Fwd Camb	Aft Camb
100.00%	13.036%	40.000%	18.000?	18.497?	-4.660?	0.000m	0.000m	0.000m	9.533%	9.133%
87.47%	16.354%	40.375%	15.750?	43.316?	-23.331?	0.519m	0.193m	0.000m	12.905%	12.261%
74.97%	18.553%	40.750%	13.500?	52.190?	-29.539?	0.847m	0.344m	0.000m	14.791%	13.947%
62.47%	19.886%	41.125%	11.250?	55.438?	-30.708?	0.963m	0.412m	0.000m	15.824%	14.845%
49.93%	19.587%	41.500%	9.000?	56.153?	-30.463?	0.941m	0.411m	0.000m	15.598%	14.607%
37.49%	18.560%	41.875%	6.750?	54.464?	-29.455?	0.811m	0.365m	0.000m	14.772%	13.873%
25.00%	17.077%	42.250%	4.500?	51.573?	-27.592?	0.603m	0.279m	0.000m	13.597%	12.824%
12.50%	15.313%	42.625%	2.250?	47.658?	-24.599?	0.332m	0.153m	0.000m	12.208%	11.547%
0.00%	12.749%	43.000%	0.000?	40.990?	-20.369?	0.000m	0.000m	0.000m	10.183%	9.660%
-5.00%	11.270%	43.150%	-0.900?	37.179?	-18.571?	-0.118m	-0.063m	0.000m	9.027%	8.601%

Chord Data

Luff : 15.5204m
Leech : 13.4467m
Foot : 9.4423m
Headboard width : 0.0150m

Fanned Foot Curve Depths

25.0%	50.0%	75.0%
0.0993m	0.1425m	0.1038m

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Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.025m	0.014m	0.025m
Zone: 1/b	0.025m	0.014m	0.025m
Zone: 2/a	0.025m	0.014m	0.025m
Zone: 2/b	0.025m	0.014m	0.025m
Zone: 3/a	0.025m	0.014m	0.025m
Zone: 3/b	0.025m	0.014m	0.025m
Cover 1	0.000m	0.000m	0.000m
Cover 2	0.000m	0.000m	0.000m
Cover 3	0.025m	0.025m	0.025m
Cover 4	0.025m	0.025m	0.025m

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m
Cover 0	0.000m	0.070m	0.070m
Cover 1	0.000m	0.070m	0.070m
Cover 2	0.070m	0.070m	0.070m
Cover 3	0.070m	0.070m	0.070m

Total Seam Lengths (m)

Horizontal	12.65
Radial/Vertical	189.75
Bi-Radial Split	14.76

Materials

Material	Area (m ²)	Panels
Material 1	58.55	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\4,3b\1,3b\2,3b\3,3b\4
Material 2	23.85	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12

