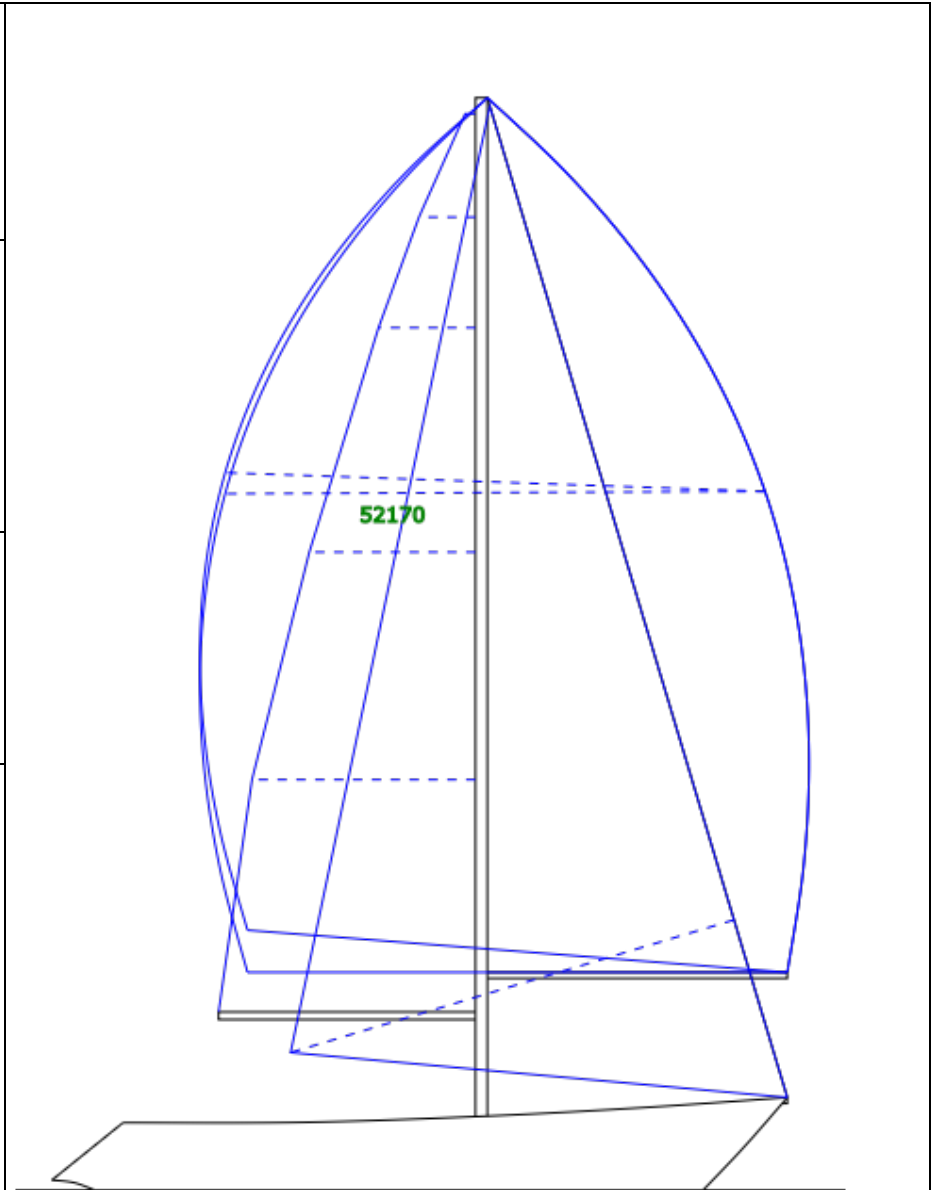


Class: C&C MKII
Configuration: 33 mark 2
Sail Number: 52170
Year Built: 1985
Builder: C&C
Owner(s): Henehan, Ken

Certificate #: EZ11848
Valid Year: 2023
Type: New Cert
Issue Date: 2023-10-10
Exp.Date: 2023-12-31
Offsets_file: US18313.OFF
Cert Group: ORR-Ez SOCAL
Comment:

Rig Type: Sloop
Forestay: Masthead
Keel Type: Fixed
Prop Type: Folding
Prop Install: Exposed
Prop Blades: 2

LOA: 32.45 ft
LWL: 26.20 ft
Rated Length: 27.34 ft
Beam Max: 10.65 ft
Draft: 6.49 ft
Disp Empty: 10390 lbs
Disp Sailing: 11850 lbs
Crew: 1259 lbs
Water Ballast: 0 lbs
Wetted Area: 244.0 ft²
LPS: 122.4 °
RM20: 653.7 ft-lbs
Stab Index: 123 °



Spinnaker: Both Symmetrical & Asymmetrical flown with spin pole
Code Zero: No
Genoa/Jib Leech: No Roach - Leech is straight
Large Roach Headsail: No
Jib Furler: No
Main Roller Furling: No

Rig Dimensions	Mainsail Meas.	Jib/Genoa Meas.	Asymmetric Spin. Meas.	Symmetric Spin. Meas.
IG: 44.50 ft	HB: 0.45 ft	LP: 20.20 ft	ASLU: 47.70 ft	SL: 44.07 ft
ISP: 44.50 ft	MGT: 2.47 ft	LPG %: 154.3 %	ASLE: 45.40 ft	SMW: 23.56 ft
J: 13.09 ft	MGU: 4.23 ft	J Luff: 45.24 ft	AMG: 23.56 ft	SF: 23.56 ft
P: 39.25 ft	MGM: 7.25 ft	J Leech: 42.28 ft	ASF: 23.56 ft	Area: 865.3 ft ²
E: 11.21 ft	MGL: 9.75 ft	Area: 456.9 ft ²	Area: 914.0 ft ²	
SPL: 13.09 ft	Area: 270.1 ft ²			

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An Dara Claddagh C&C MKII 52170

Table of Time Allowances (sec/mile)* (at True Wind Angles)

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	46.0	44.9	43.4	40.6	38.3	35.9	34.9	35.1
Beat VMG	1,550.05	1,122.54	921.40	820.49	773.36	729.48	712.57	709.71
52°	981.17	723.05	606.17	564.66	547.41	530.45	523.35	520.77
60°	893.63	673.31	580.57	545.84	530.54	515.21	508.47	503.04
75°	817.64	628.23	555.97	525.10	508.77	488.82	477.45	470.69
90°	781.22	602.83	536.63	505.88	489.46	467.61	453.94	445.59
110°	785.01	608.05	544.10	511.51	487.23	449.89	431.57	419.24
120°	841.14	641.84	562.74	527.63	501.50	459.73	424.86	407.50
135°	1,168.18	804.94	628.72	565.62	531.11	483.36	445.11	408.45
150°	1,430.72	985.21	764.07	631.09	568.92	507.92	466.96	431.46
165°	1,595.77	1,098.86	852.20	703.57	611.73	529.86	484.91	449.28
Run VMG	1,652.06	1,137.62	882.27	728.39	633.31	543.96	496.46	460.41
Opt Run Angle	131.0	136.8	146.0	151.3	164.8	173.1	174.3	173.9

* Sec/mile rating assume gybing downwind when target angles are deeper than best VMG angles.

Standard Ratings

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.373	0.592	0.791	0.918	1,281.3	807.6	604.8	521.0
W50/L50	0.360	0.586	0.811	0.955	1,630.4	1,000.6	723.0	613.8
W60/L40	0.369	0.596	0.813	0.941	1,621.5	1,003.9	736.5	635.6
MOSTLY WW	0.407	0.634	0.817	0.902	1,482.0	950.8	737.4	668.3
MOSTLY LW	0.360	0.574	0.785	0.958	1,311.6	822.8	602.1	493.0

Standard PCS Ratings

	TOD (Spin)							
	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,282.6	918.7	744.4	651.5	598.7	545.5	519.5	503.7
W50/L50	1,630.5	1,150.1	915.8	786.9	713.4	643.5	610.5	590.8
W60/L40	1,621.5	1,149.5	920.4	796.6	727.4	662.3	632.3	616.0
MOSTLY WW	1,481.8	1,072.1	879.0	779.8	731.0	684.7	665.1	658.4
MOSTLY LW	1,311.5	937.8	758.4	657.3	594.6	528.8	489.4	464.2
MOSTLY REACH								

Performance Metrics

SA/D Dnwind:	36.450
SA/D Average:	29.55
SA/D Upwind:	22.650
D/Length:	258.8
Ave Perf Screen:	11.400
DnWind Perf	14.1
Screen:	

Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.786	671.0
IR#	0.804	664.9

ORR-Ez PHRF

TOD (Spin)
128.6

ORR-Ez PHRF are based on the Farr 40 MH as Scratch Boat.

ORR-Ez PHRF Time Allowance 4 Winds

	TOD (Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	290.9	174.3	122.9	117.4
W50/L50	423.5	232.2	136.3	127.4
W60/L40	405.4	229.3	140.4	130.1
MOSTLY WW	314.9	200.1	137.7	126.9
MOSTLY LW	367.1	202.9	124.3	118.9



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2023 ORR-Ez Certificate - EZ11848

Non Spinnaker Ratings

An Dara Claddagh C&C MKII 52170



Table of Time Allowances (sec/mile)* (at True Wind Angles)

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
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Performance Metrics

SA/D:	22.65
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Opt Beat Angle	46.0	44.9	43.4	40.6	38.3	35.9	34.9	35.1
Beat VMG	1,550.05	1,122.54	921.40	820.49	773.36	729.48	712.57	709.71
52°	981.17	723.05	606.17	564.66	547.41	530.45	523.35	520.77
60°	893.63	673.31	580.57	545.84	530.54	515.21	508.47	505.80
75°	814.02	628.23	559.35	527.39	509.40	493.90	486.34	482.75
90°	807.77	624.90	558.23	526.90	505.07	479.21	469.86	464.70
110°	931.77	697.55	596.50	556.86	530.41	491.94	462.75	449.39
120°	1,073.92	784.83	651.28	585.21	551.45	506.46	473.18	447.12
135°	1,477.47	1,008.77	775.31	659.27	589.71	525.95	486.03	454.09
150°	1,740.31	1,161.59	872.24	720.72	625.70	539.84	494.80	460.28
165°	1,799.28	1,207.89	912.27	744.91	641.65	542.14	492.82	455.62
Run VMG	1,814.06	1,217.66	919.54	750.91	646.84	547.25	498.13	461.30
Opt Run Angle	171.9	171.9	172.0	172.1	172.0	173.3	173.5	173.1

D/Length:	258.8
Perf Screen:	8.8

* Sec/mile rating assume gybing downwind when target angles are deeper than best VMG angles.

Standard Ratings

	V.Light	TOT (Non-Spin)			V.Light	TOD (Non-Spin)		
		Light	Medium	Heavy		Light	Medium	Heavy
RANDOM LEG	0.349	0.561	0.761	0.892	1,371.0	853.2	628.4	536.6
W50/L50	0.347	0.574	0.805	0.954	1,689.8	1,021.9	728.2	614.4
W60/L40	0.359	0.586	0.808	0.941	1,668.6	1,020.9	740.7	636.2
MOSTLY WW	0.403	0.629	0.814	0.899	1,496.8	957.2	740.1	670.0
MOSTLY LW	0.321	0.533	0.753	0.923	1,470.0	886.4	627.3	511.8

Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.750	703.7
IR#	0.791	677.0

ORR-Ez PHRF

TOD (Non-Spin)	140.7
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ORR-Ez PHRF are based on the Farr 40 MH as Scratch Boat.

Standard PCS Ratings

	TOD (Non-Spin)							
	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,377.6	978.9	785.9	682.5	622.4	562.4	534.7	519.3
W50/L50	1,703.3	1,188.8	935.5	798.3	720.2	645.4	611.3	591.2
W60/L40	1,679.4	1,180.4	936.2	805.7	732.9	663.8	633.0	616.3
MOSTLY WW	1,499.4	1,082.3	884.9	784.2	733.9	686.2	666.9	660.4
MOSTLY LW	1,486.4	1,035.0	812.4	691.6	621.3	549.2	509.6	480.5
MOSTLY REACH								

ORR-Ez PHRF Allowance 4 Winds

	TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	380.6	219.9	146.5	133.0
W50/L50	482.9	253.5	141.5	128.0
W60/L40	452.5	246.3	144.6	130.7
MOSTLY WW	329.7	206.5	140.4	128.6
MOSTLY LW	525.5	266.5	149.5	137.7



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