



2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **048/20**
Issued On **24/07/2020**
ORC Ref **03850000N4S**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default	345kg
Maximum	400kg
Minimum*	300kg
*when applied by the NoR and SI	
Non Manual Pwr	No

Special Scoring

	ToD	ToT
Non Spin GPH	752.0	0.7979
Non Spin OSN	728.3	0.8239

Sails Limitations

Headsails **5** Spinnakers **4**

Spinnaker configuration

Symmetric: **Yes 29.82**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

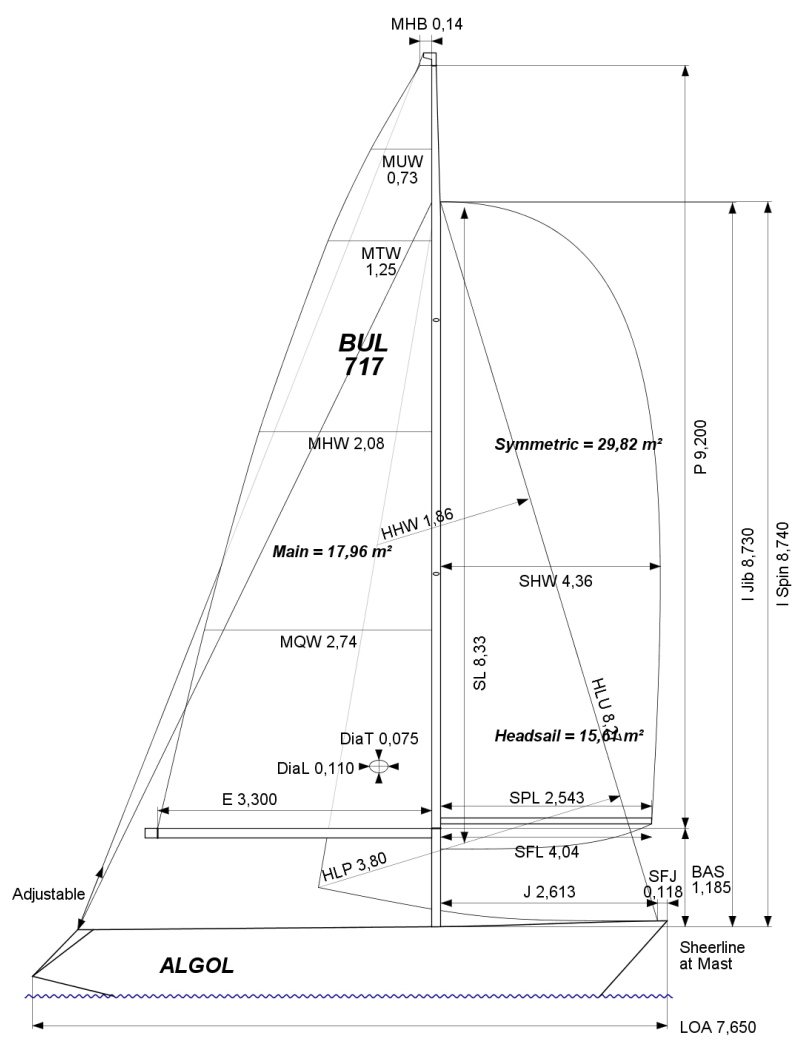
Class Division Length

CDL = **6.330**

Stability (Estimated)

Limit Positive Stab.: **114.4°**
Stability Index: **106.7**

Owner



BOAT Name Algol Sail Nr BUL-717		GPH 729.5	HULL Data File BUL717 LOA 7.650m Offset File C760.off MB 2.756m Displacement 1,518kg Draft 1.516m			
CLASS Class Conrad 25R Designer Doug Peterson Builder Conrad shipyard Series 01/1976 Age Date 03/1980 Age Allowance 0.487%		IMS Division Performance Dynamic All. 0.067% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		IMSL 6.174m VCGD -0.029m Sink 8.09kg/mm RL 6.485m VCGM -0.024m WS 11.07m² LSM0 6.161m Displacement/Length ratio 6.4911		
COMMENTS		Water Ballast 0 Trim Tab No BLR Index 0.0000				
PROPELLER Type No Propeller		CENTERBOARD N/A				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	709.2			784.1		
Time on Time	0.8460			0.8609		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	822.8	650.1	586.5	1050.6	784.9	698.6
Time on Time	0.8204	1.0383	1.1509	0.6425	0.8600	0.9662

2020

ORC Club Certificate Appendix

BOAT		Certificate Number	048/20
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Sail Nr	BUL-717		

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1160.5	978.1	873.6	829.2	818.1	815.9	829.9
52°	772.9	662.5	623.4	603.8	593.9	589.7	590.4
60°	736.1	643.0	610.9	590.2	575.6	568.8	566.0
75°	712.9	633.0	600.3	575.9	554.7	540.0	528.9
90°	722.7	630.0	589.8	559.5	538.3	526.5	499.5
110°	740.4	631.7	588.9	553.2	522.9	498.0	466.5
120°	769.3	645.6	598.2	564.1	532.3	504.1	454.4
135°	855.5	700.5	625.6	588.6	555.5	525.5	471.1
150°	993.9	794.6	676.3	618.6	585.0	553.9	500.3
Run VMG	1147.7	915.9	774.2	678.5	622.1	588.7	531.1
Selected Courses							
Windward / Leeward	1154.1	947.0	823.9	753.9	720.1	702.3	680.5
Circular Random	991.0	806.4	708.6	652.6	618.6	596.7	569.2
Coastal / Long Distance	1153.5	893.3	751.5	672.4	631.2	598.7	541.1
Non Spinnaker	1030.4	834.5	729.9	669.6	632.9	609.3	580.5

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	41.3°	41.6°	38.6°	37.1°	36.8°	36.9°	38.3°
Beat VMG	3.10	3.68	4.12	4.34	4.40	4.41	4.34
52°	4.66	5.43	5.77	5.96	6.06	6.11	6.10
60°	4.89	5.60	5.89	6.10	6.25	6.33	6.36
75°	5.05	5.69	6.00	6.25	6.49	6.67	6.81
90°	4.98	5.71	6.10	6.43	6.69	6.84	7.21
110°	4.86	5.70	6.11	6.51	6.88	7.23	7.72
120°	4.68	5.58	6.02	6.38	6.76	7.14	7.92
135°	4.21	5.14	5.75	6.12	6.48	6.85	7.64
150°	3.62	4.53	5.32	5.82	6.15	6.50	7.20
Run VMG	3.14	3.93	4.65	5.31	5.79	6.12	6.78
Gybe Angles	149.0°	153.0°	156.0°	180.0°	180.0°	180.0°	180.0°