



ORC
Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **030/20**
Issued On **20/05/2020**
ORC Ref **03850000IKI**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 864kg
Maximum **864kg**
Minimum* **648kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	669.9	0.8957
Non Spin OSN	645.4	0.9297

Sails Limitations

Headsails **1** Spinnakers **4**
Woven Polyester
Asymmetric on centerline
Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 112.09**
Flying H/S: **No**
Spin. Pole: **No**

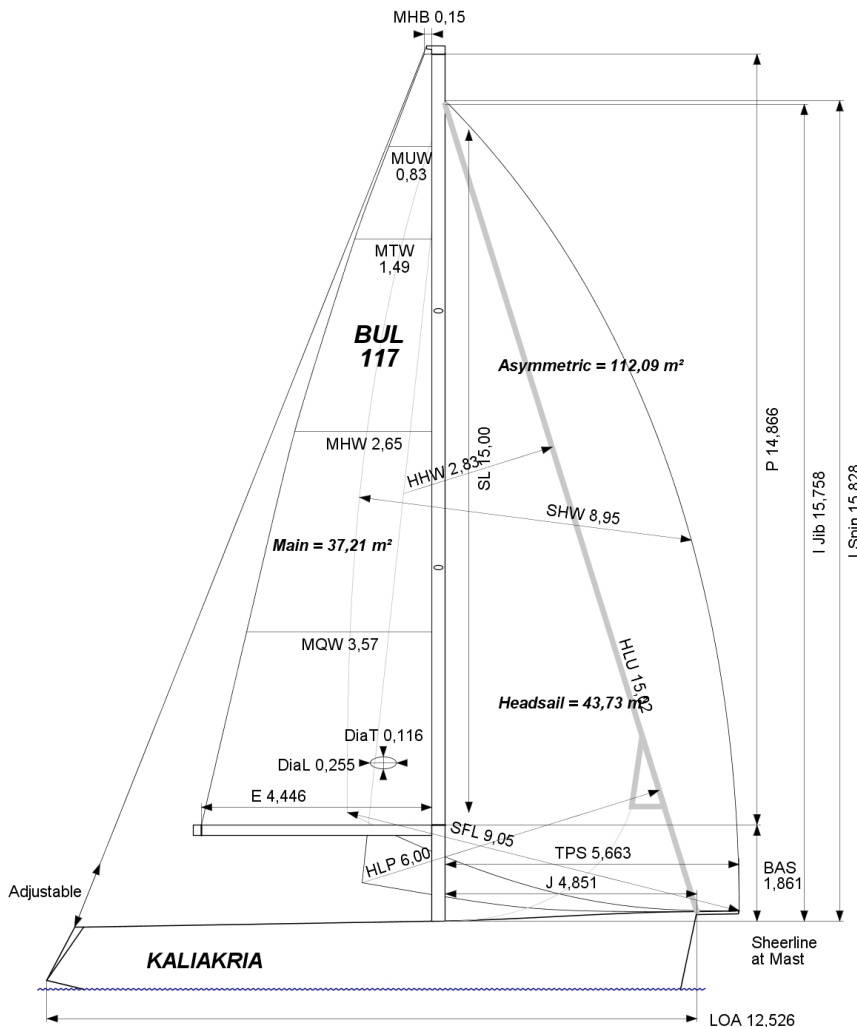
Class Division Length

CDL = 10.068

Stability (Measured)

Limit Positive Stab.: **108.4°**
Stability Index: **110.9**

Owner



BOAT		GPH	HULL			
Name Kaliakria	Sail Nr BUL-117	628.1	Data File BUL117	LOA 12.526m		
			Offset File SOD42IPN.off	MB 4.110m		
			Displacement 8,573kg	Draft 2.106m		
			IMS Division Cruiser/Racer	Dynamic All. 0.357%		
			Plan Review	Construction Solid		
			Fiber Rigging No	Aramid Core No		
			Crew Arm Ex	Carbon Rudder No		
				Light Stanchions No		
			IMSL 11.759m	VCGD 0.025m	Sink 27.19kg/mm	
			RL 8.383m	VCGM 0.233m	WS 35.58m²	
			LSM0 11.730m	Displacement/Length ratio 5.3118		
			Water Ballast 0	Trim Tab No		
			BLR Index 0.0000			
CLASS		CENTERBOARD				
Class Sun Odyssey 42i		NA				
Designer Berret						
Builder Jeaneau						
Series 01/2007						
Age Date 01/2008						
Age Allowance 0.422%						
COMMENTS						
measured with headsail furler						
PROPELLER						
Installation Shaft exposed	PRD 0.500					
Type Folding 3 blades	PBW 0.130					
	PIPA 0.0074					
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	607.4			688.4		
Time on Time	0.9878			0.9805		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	747.1	549.1	477.6	976.8	693.7	586.5
Time on Time	0.9035	1.2293	1.4132	0.6910	0.9730	1.1508

2020

ORC Club Certificate Appendix

BOAT	
Name Kaliakria	Certificate Number 030/20
Sail Nr BUL-117	Issued On 20/05/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1157.6	934.2	810.9	729.3	682.7	667.0	665.1
52°	736.5	605.9	534.1	490.2	469.3	461.2	458.2
60°	685.7	570.5	506.9	473.3	456.1	447.3	443.0
75°	650.9	544.4	488.0	461.0	445.0	433.1	419.5
90°	650.9	534.1	472.8	446.3	434.4	426.9	403.0
110°	642.7	522.8	465.1	438.8	417.9	398.5	375.2
120°	663.8	539.3	473.3	443.7	421.8	399.5	359.1
135°	743.3	593.8	508.0	462.5	438.4	417.2	374.6
150°	882.4	690.0	582.1	513.6	475.7	453.6	421.6
Run VMG	1018.9	796.8	672.1	593.0	549.3	519.1	455.6
Selected Courses							
Windward / Leeward	1088.2	865.5	741.5	661.2	616.0	593.1	560.3
Circular Random	889.3	707.6	607.8	548.6	512.1	488.7	460.4
Coastal / Long Distance	1081.3	809.1	660.3	567.0	518.7	486.7	435.3
Non Spinnaker	967.4	762.1	647.3	577.6	533.6	505.2	472.9

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	45.8°	44.3°	42.8°	41.6°	40.5°	40.1°	40.3°
Beat VMG	3.11	3.85	4.44	4.94	5.27	5.40	5.41
52°	4.89	5.94	6.74	7.34	7.67	7.81	7.86
60°	5.25	6.31	7.10	7.61	7.89	8.05	8.13
75°	5.53	6.61	7.38	7.81	8.09	8.31	8.58
90°	5.53	6.74	7.61	8.07	8.29	8.43	8.93
110°	5.60	6.89	7.74	8.20	8.61	9.04	9.60
120°	5.42	6.68	7.61	8.11	8.53	9.01	10.03
135°	4.84	6.06	7.09	7.78	8.21	8.63	9.61
150°	4.08	5.22	6.18	7.01	7.57	7.94	8.54
Run VMG	3.53	4.52	5.36	6.07	6.55	6.93	7.90
Gybe Angles	144.0°	147.0°	147.3°	147.5°	149.0°	174.0°	177.0°