



ORC

Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **0639.8**
Issued On **01/09/2020**
ORC Ref **03570000PIQ**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 664kg
Maximum **530kg**
Minimum* **398kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	635.6	0.9440
Non Spin OSN	617.9	0.9710

Sails Limitations

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

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 106.09**
Flying H/S: **No**
Spin. Pole: **No**

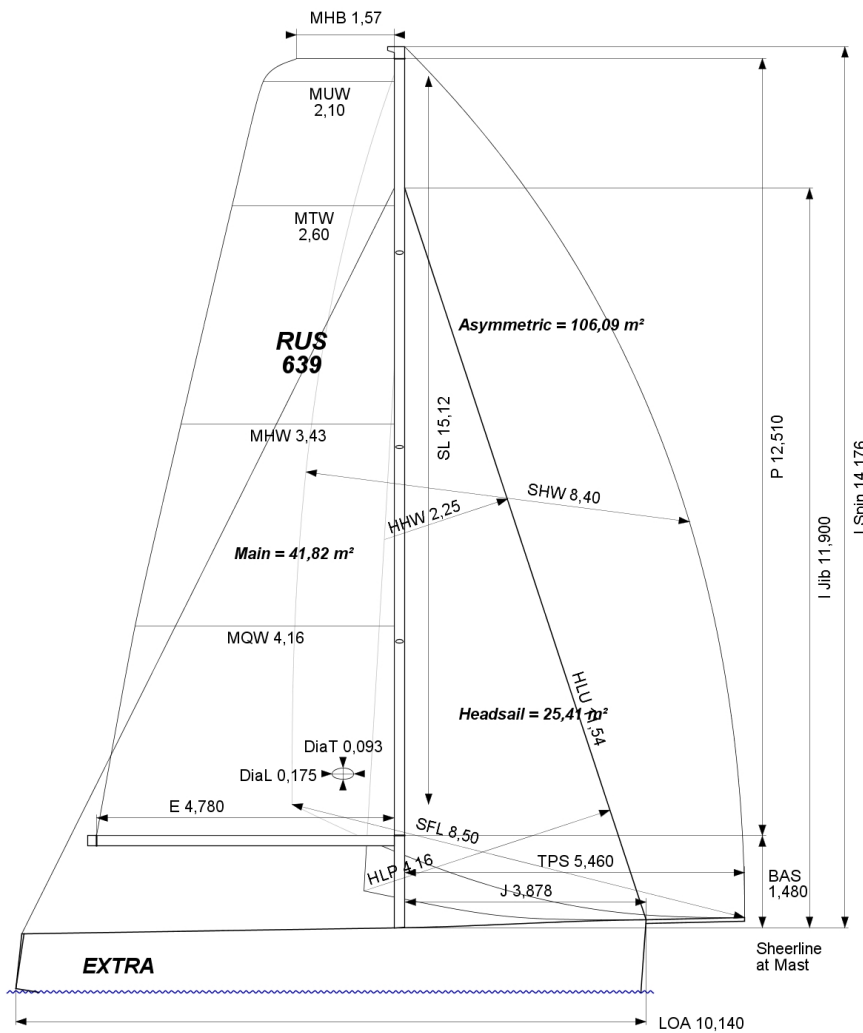
Class Division Length

CDL = 9.436

Stability (Measured)

Limit Positive Stab.: **116.7°**
Stability Index: **114.0**

Owner



BOAT		GPH	HULL			
Name Extra Sail Nr RUS 639		599.2	Data File RU0639_Extra	LOA 10.140m		
			Offset File Extra_i.off	MB 3.412m		
			Displacement 3,992kg	Draft 2.183m		
CLASS			IMS Division Performance	Dynamic All. 0.000%		
Class Dream 33			Plan Review	Construction Cored		
Designer E. Alexandrov			Fiber Rigging No	Aramid Core No		
Builder Dreamboat yard			Crew Arm Ex	Carbon Rudder No		
Series 08/2007			Light Stanchions			
Age Date 08/2007			IMSL 9.879m	VCGD -0.103m	Sink 17.10kg/mm	
Age Allowance 0.422%			RL 8.999m	VCGM -0.056m	WS 22.37m²	
COMMENTS			LSM0 9.752m	Displacement/Length ratio 4.3044		
			Water Ballast 0	Trim Tab No		
			BLR Index 0.0000			
PROPELLER			CENTERBOARD			
Installation Strut	PRD 0.380					
Type Folding 2 blades	PBW 0.097					
	PIPA 0.0037					
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	584.1			655.8		
Time on Time	1.0273			1.0292		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	672.2	535.0	481.4	864.3	657.4	584.7
Time on Time	1.0041	1.2617	1.4022	0.7810	1.0268	1.1545

2020

ORC Club Certificate Appendix

BOAT	
Name Extra	Certificate Number 0639.8
Sail Nr RUS 639	Issued On 01/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	983.3	813.3	732.5	703.9	691.6	682.6	676.9
52°	649.8	549.3	512.2	500.2	494.7	491.7	484.8
60°	616.8	530.6	499.9	486.8	480.5	476.9	468.6
75°	591.6	518.4	489.8	471.3	457.8	450.0	442.9
90°	596.6	511.9	488.5	466.5	445.0	427.5	408.4
110°	587.5	502.7	469.8	447.2	431.2	415.6	388.3
120°	601.9	509.1	472.6	439.8	413.2	395.8	365.0
135°	674.6	545.3	492.2	460.2	426.4	393.0	331.3
150°	798.7	639.4	543.0	496.3	471.8	446.6	381.7
Run VMG	922.2	738.3	627.0	571.6	536.6	499.0	440.8
Selected Courses							
Windward / Leeward	952.7	775.8	679.7	637.8	614.1	590.8	558.8
Circular Random	812.8	661.3	582.1	537.1	509.2	489.6	460.5
Coastal / Long Distance	949.7	730.2	617.0	557.0	522.8	492.1	440.0
Non Spinnaker	881.1	708.8	616.3	562.4	528.7	505.9	474.7

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	42.0°	40.5°	39.4°	38.3°	37.5°	37.1°	37.5°
Beat VMG	3.66	4.43	4.91	5.11	5.20	5.27	5.32
52°	5.54	6.55	7.03	7.20	7.28	7.32	7.43
60°	5.84	6.79	7.20	7.39	7.49	7.55	7.68
75°	6.08	6.94	7.35	7.64	7.86	8.00	8.13
90°	6.03	7.03	7.37	7.72	8.09	8.42	8.82
110°	6.13	7.16	7.66	8.05	8.35	8.66	9.27
120°	5.98	7.07	7.62	8.19	8.71	9.10	9.86
135°	5.34	6.60	7.31	7.82	8.44	9.16	10.87
150°	4.51	5.63	6.63	7.25	7.63	8.06	9.43
Run VMG	3.90	4.88	5.74	6.30	6.71	7.21	8.17
Gybe Angles	144.0°	148.0°	149.0°	151.5°	175.0°	177.5°	142.8°