



ORC
Offshore Racing Congress
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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **035/20**
Issued On **22/05/2020**
ORC Ref **03850000IM4**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 745kg
Maximum **850kg**
Minimum* **638kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	616.6	0.9731
Non Spin OSN	599.1	1.0015

Sails Limitations

Headsails **6** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes 115.81**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

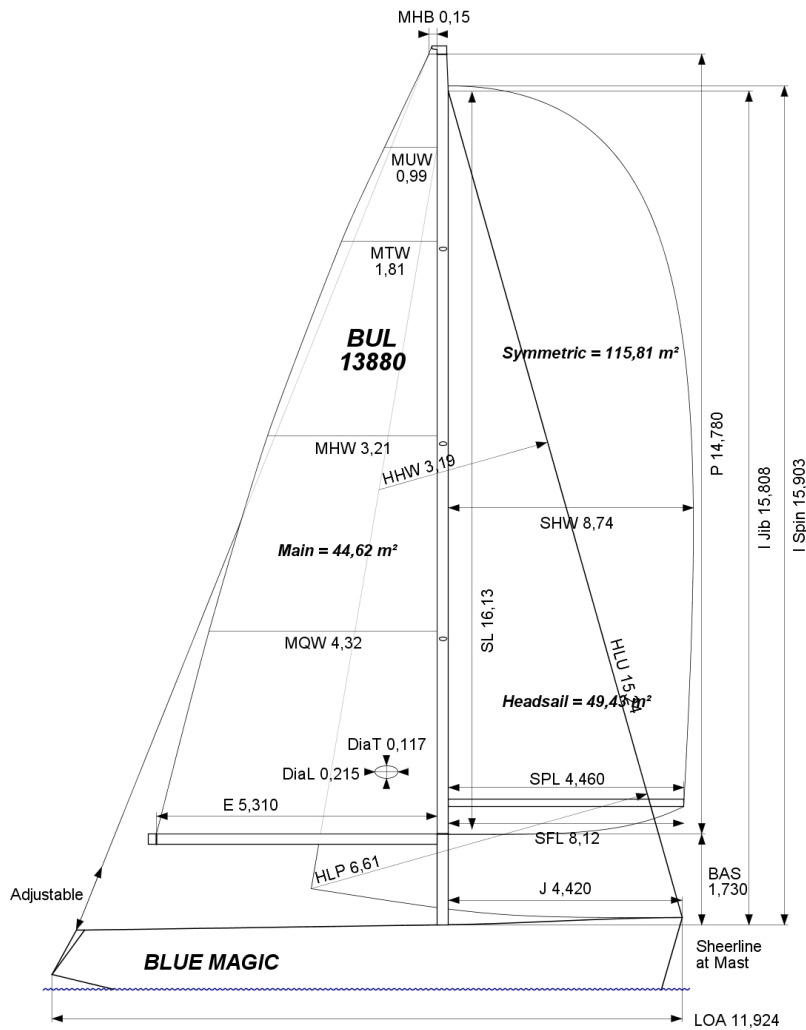
Class Division Length

CDL = 10.395

Stability (Estimated)

Limit Positive Stab.: **122.5°**
Stability Index: **125.3**

Owner



BOAT Name Blue Magic Sail Nr BUL-13880	GPH 588.7	HULL Data File BUL13880 LOA 11.924m Offset File EFRST407.OFF MB 3.770m Displacement 7,201kg Draft 2.420m
CLASS Class First 40.7 Designer Farr Builder Beneteau Series 01/1997 Age Date 01/2001 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.021% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder Yes Light Stanchions No
COMMENTS		IMSL 10.655m VCGD -0.292m Sink 22.24kg/mm RL 10.133m VCGM -0.054m WS 29.79m² LSM0 10.574m Displacement/Length ratio 6.0908 Water Ballast 0 Trim Tab No BLR Index 0.0000
PROPELLER Installation Strut PRD 0.407 Type Folding 2 blades PIPA 0.0006		CENTERBOARD N/A

SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Time on Distance	571.8			635.1	
Time on Time	1.0494			1.0628		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	673.4	521.9	466.2	867.9	638.4	554.3
Time on Time	1.0024	1.2933	1.4480	0.7777	1.0573	1.2177

2020

ORC Club Certificate Appendix

BOAT		Certificate Number	035/20
Name	Blue Magic	Issued On	22/05/2020
Sail Nr	BUL-13880		

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	964.0	800.9	705.5	663.3	646.1	637.8	636.1
52°	636.7	537.7	492.3	474.4	467.4	463.7	461.5
60°	603.8	516.9	481.3	464.8	456.1	451.7	448.1
75°	579.1	503.5	473.7	456.0	442.5	432.7	424.2
90°	585.8	504.3	472.3	453.8	437.7	422.5	400.8
110°	611.7	506.5	465.8	442.1	421.7	409.1	389.4
120°	628.2	516.8	470.8	445.6	421.9	400.2	372.3
135°	692.8	563.1	492.8	461.7	438.7	415.4	371.8
150°	821.8	656.3	554.1	492.7	463.6	442.0	399.9
Run VMG	948.9	757.8	639.8	562.8	512.9	476.5	433.3
Selected Courses							
Windward / Leeward	956.4	779.4	672.7	613.1	579.5	557.2	534.7
Circular Random	808.6	653.9	571.2	523.4	494.1	475.0	451.3
Coastal / Long Distance	955.7	733.2	608.9	539.3	503.5	475.3	432.2
Non Spinnaker	858.2	689.3	597.7	544.0	510.7	489.0	461.9

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	42.0°	40.9°	39.8°	37.9°	37.5°	36.9°	36.8°
Beat VMG	3.73	4.49	5.10	5.43	5.57	5.64	5.66
52°	5.65	6.70	7.31	7.59	7.70	7.76	7.80
60°	5.96	6.96	7.48	7.75	7.89	7.97	8.03
75°	6.22	7.15	7.60	7.89	8.14	8.32	8.49
90°	6.14	7.14	7.62	7.93	8.23	8.52	8.98
110°	5.89	7.11	7.73	8.14	8.54	8.80	9.24
120°	5.73	6.97	7.65	8.08	8.53	9.00	9.67
135°	5.20	6.39	7.31	7.80	8.21	8.67	9.68
150°	4.38	5.49	6.50	7.31	7.77	8.14	9.00
Run VMG	3.79	4.75	5.63	6.40	7.02	7.55	8.31
Gybe Angles	141.0°	149.0°	149.5°	156.0°	170.0°	180.0°	180.0°