



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

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **035/20**
Issued On **10/09/2020**
ORC Ref **03850000Q54**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 749kg
Maximum **850kg**
Minimum* **638kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	641.1	0.9359
Non Spin OSN	619.7	0.9682

Sails Limitations

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

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

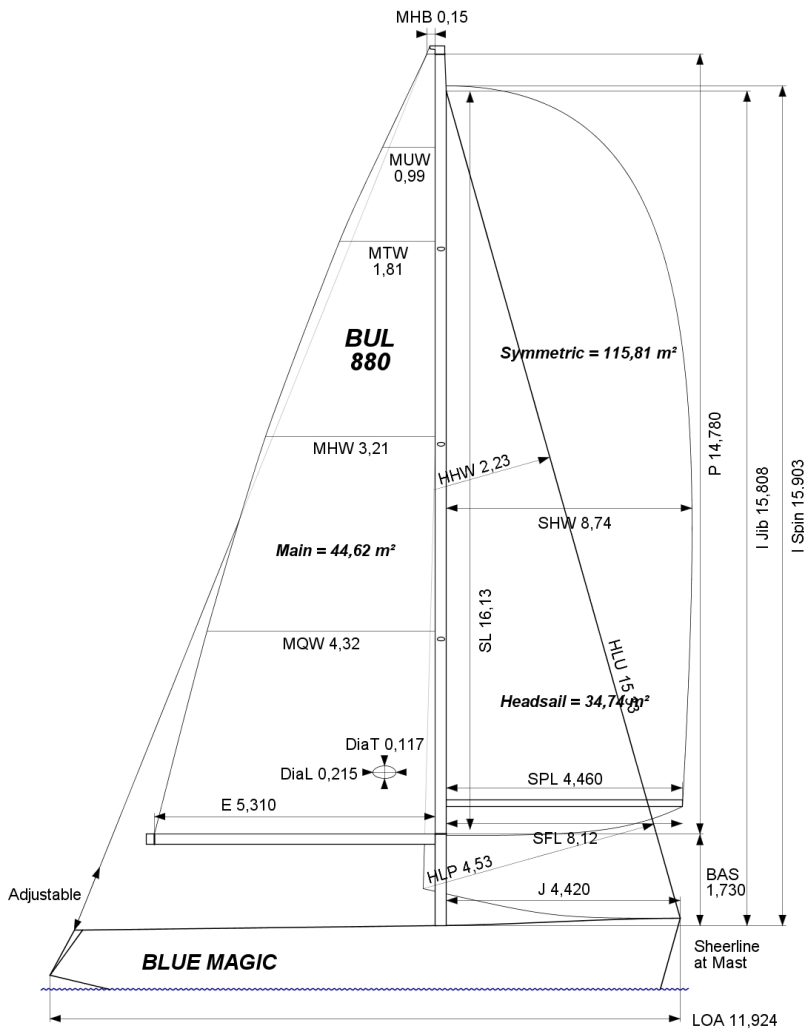
Class Division Length

CDL = 10.105

Stability (Estimated)

Limit Positive Stab.: **120.0°**
Stability Index: **123.1**

Owner



BOAT	GPH	HULL
Name Blue Magic Sail Nr BUL 880	602.9	Data File BUL13880 LOA 11.924m Offset File EFRST407.OFF MB 3.770m Displacement 7,354kg Draft 2.427m
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. 0.205% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder Yes Light Stanchions No
COMMENTS		IMSL 10.679m VCGD -0.243m Sink 22.43kg/mm RL 9.530m VCGM -0.011m WS 30.00m² LSM0 10.608m Displacement/Length ratio 6.1606
PROPELLER Installation Strut PRD 0.410 Type Folding 2 blades PBW 0.110 PIPA 0.0032		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	583.7	648.9
Time on Time	1.0279	1.0402
Triple Number	Low Medium High	Low Medium High
Time on Distance	698.5 532.2 470.6	901.3 653.9 559.3
Time on Time	0.9664 1.2683 1.4342	0.7489 1.0322 1.2069

2020

ORC Club Certificate Appendix

BOAT		Certificate Number	035/20
Name	Blue Magic	Issued On	10/09/2020
Sail Nr	BUL 880		

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1033.5	853.2	747.1	684.0	659.0	648.6	638.9
52°	677.8	571.2	511.2	484.3	472.3	467.5	464.4
60°	642.0	544.3	496.1	473.8	461.6	455.2	450.9
75°	617.1	525.1	485.4	465.4	450.7	439.0	426.8
90°	624.3	518.1	474.5	459.0	447.6	432.6	407.3
110°	615.0	508.5	466.9	443.5	423.9	412.0	393.3
120°	631.8	519.1	471.9	446.9	423.7	402.2	375.8
135°	697.3	566.3	494.5	462.8	440.0	417.1	374.0
150°	828.3	660.2	557.0	494.4	464.7	443.4	401.7
Run VMG	956.4	762.3	643.2	565.2	515.0	477.8	434.9
Selected Courses							
Windward / Leeward	995.0	807.7	695.1	624.6	587.0	563.2	536.9
Circular Random	836.2	672.9	584.6	533.0	501.1	480.2	454.0
Coastal / Long Distance	991.1	758.3	626.5	548.1	509.7	480.4	435.7
Non Spinnaker	905.4	721.8	620.8	560.5	522.8	498.2	468.8

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	42.8°	40.5°	40.1°	38.6°	37.5°	37.5°	37.1°
Beat VMG	3.48	4.22	4.82	5.26	5.46	5.55	5.63
52°	5.31	6.30	7.04	7.43	7.62	7.70	7.75
60°	5.61	6.61	7.26	7.60	7.80	7.91	7.98
75°	5.83	6.86	7.42	7.74	7.99	8.20	8.43
90°	5.77	6.95	7.59	7.84	8.04	8.32	8.84
110°	5.85	7.08	7.71	8.12	8.49	8.74	9.15
120°	5.70	6.93	7.63	8.06	8.50	8.95	9.58
135°	5.16	6.36	7.28	7.78	8.18	8.63	9.62
150°	4.35	5.45	6.46	7.28	7.75	8.12	8.96
Run VMG	3.76	4.72	5.60	6.37	6.99	7.53	8.28
Gybe Angles	141.0°	149.0°	149.5°	155.5°	169.0°	180.0°	180.0°