



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **128/20**
Issued On **29/07/2020**
ORC Ref **03880000NBJ**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 644kg
Maximum **710kg**
Minimum* **533kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	665.7	0.9013
Non Spin OSN	644.6	0.9309

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes 95.45**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

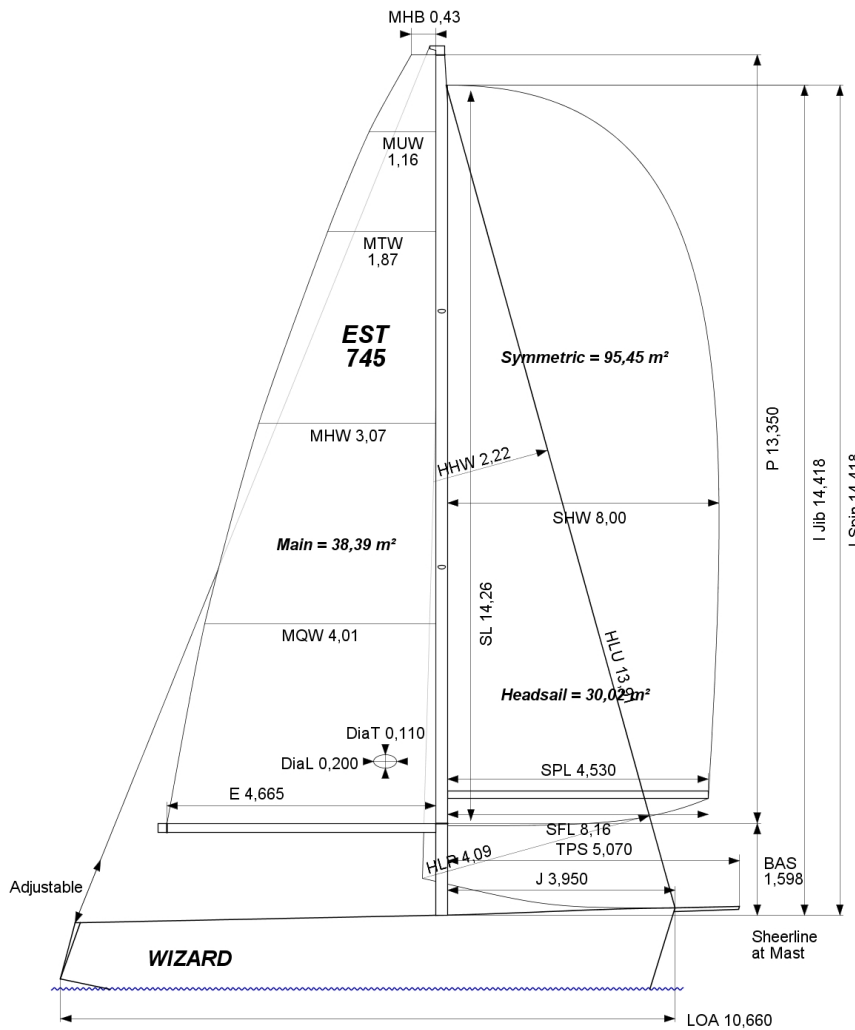
Class Division Length

CDL = 9.017

Stability (Measured)

Limit Positive Stab.: **117.3°**
Stability Index: **117.0**

Owner



BOAT	GPH	HULL				
Name WIZARD Sail Nr EST 745	628.9	Data File EST745 LOA 10.660m Offset File F242.OFF MB 3.636m Displacement 5,577kg Draft 2.200m				
CLASS Class First 35 Designer Bruce Farr Builder Beneteau Series 02/2009 Age Date 01/2010 Age Allowance 0.357%		IMS Division Cruiser/Racer Dynamic All. 0.196% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions IMSL 9.703m VCGD 0.128m Sink 19.17kg/mm RL 8.346m VCGM 0.130m WS 26.03m² LSM0 9.545m Displacement/Length ratio 6.4132 Water Ballast 0 Trim Tab No BLR Index 0.0000				
COMMENTS		CENTERBOARD N/A				
PROPELLER Installation Strut PRD 0.430 Type Folding 2 blades PBW 0.120 PIPA 0.0032						
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	610.4			682.0		
Time on Time	0.9829			0.9898		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	722.7	556.0	497.8	933.9	684.2	596.2
Time on Time	0.9340	1.2141	1.3561	0.7228	0.9866	1.1321

2020

ORC Club Certificate Appendix

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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1079.6	891.8	783.9	730.9	715.3	710.8	701.0
52°	702.8	592.4	533.2	508.7	500.4	497.2	492.9
60°	663.2	563.6	516.6	495.8	486.3	482.6	479.7
75°	635.4	542.8	504.5	484.7	470.8	461.1	454.5
90°	643.0	536.8	494.8	480.8	464.7	449.1	426.5
110°	633.2	525.7	485.2	460.9	441.6	429.8	410.4
120°	650.7	535.7	489.6	463.3	438.5	416.5	391.6
135°	717.3	582.0	512.0	480.2	455.6	430.9	384.7
150°	851.6	676.2	570.8	510.4	481.1	458.2	413.4
Run VMG	983.4	780.8	658.9	580.8	527.9	492.3	447.1
Selected Courses							
Windward / Leeward	1031.5	836.3	721.4	655.9	621.6	601.5	574.1
Circular Random	867.2	699.5	609.8	558.3	527.1	506.9	481.0
Coastal / Long Distance	1026.7	784.6	650.4	574.9	536.9	507.3	459.3
Non Spinnaker	933.9	746.4	644.5	584.9	548.3	524.7	494.9

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	43.1°	41.3°	40.5°	39.8°	39.0°	39.0°	39.8°
Beat VMG	3.33	4.04	4.59	4.93	5.03	5.07	5.14
52°	5.12	6.08	6.75	7.08	7.19	7.24	7.30
60°	5.43	6.39	6.97	7.26	7.40	7.46	7.50
75°	5.67	6.63	7.14	7.43	7.65	7.81	7.92
90°	5.60	6.71	7.28	7.49	7.75	8.02	8.44
110°	5.69	6.85	7.42	7.81	8.15	8.38	8.77
120°	5.53	6.72	7.35	7.77	8.21	8.64	9.19
135°	5.02	6.19	7.03	7.50	7.90	8.35	9.36
150°	4.23	5.32	6.31	7.05	7.48	7.86	8.71
Run VMG	3.66	4.61	5.46	6.20	6.82	7.31	8.05
Gybe Angles	145.0°	149.0°	150.5°	157.0°	174.0°	180.0°	180.0°