



ORC

Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **Est745**
Issued On **31/05/2020**
ORC Ref **03580000JHI**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 648kg
Maximum **665kg**
Minimum* **499kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	663.0	0.9050
Non Spin OSN	641.6	0.9351

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes** 97.27
Asymmetric: **Yes** 101.91
Flying H/S: **No**
Spin. Pole: **Yes**

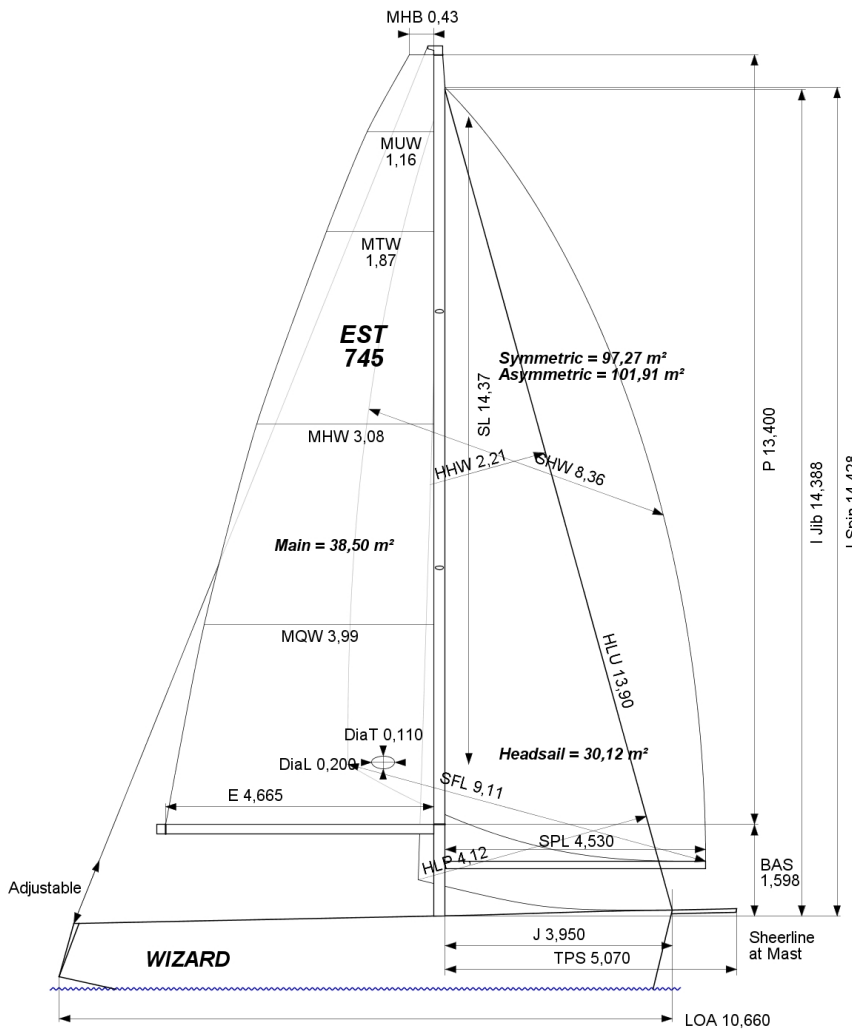
Class Division Length

CDL = 9.091

Stability (Estimated)

Limit Positive Stab.: **127.7°**
Stability Index: **127.3**

Owner



BOAT		GPH		HULL		
Name	WIZARD			Data File	Est0745	
Sail Nr	EST 745			Offset File	F242.OFF	
		623.5		Displacement	5,540kg	
				LOA	10.660m	
				MB	3.636m	
				Draft	2.203m	
CLASS				IMS Division	Cruiser/Racer	
Class	First 35			Dynamic All.	0.195%	
Designer	Bruce Farr			Plan Review	Solid	
Builder	Beneteau			Fiber Rigging	No	
Series	02/2009			Crew Arm Ex	No	
Age Date	01/2010			Aramid Core	No	
Age Allowance	0.357%			Carbon Rudder	No	
COMMENTS				Light Stanchions	No	
				IMSL	9.663m	
				VCGD	-0.078m	
				Sink	18.92kg/mm	
				RL	8.518m	
				VCGM	-0.076m	
				WS	25.82m²	
				LSM0	9.583m	
				Displacement/Length ratio	6.2951	
				Water Ballast	0	
				Trim Tab	No	
				BLR Index	0.0000	
PROPELLER				CENTERBOARD		
Installation	Strut	PRD	0.430			
Type	Folding 2 blades	PBW	0.120			
		PIPA	0.0032	N/A		
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	605.5			676.1		
Time on Time	0.9910			0.9983		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	716.2	551.7	492.3	927.8	678.8	589.9
Time on Time	0.9425	1.2236	1.3712	0.7275	0.9944	1.1442

2020

ORC Club Certificate Appendix

BOAT			
Name	WIZARD	Certificate Number	Est745
Sail Nr	EST 745	Issued On	31/05/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1075.9	889.1	780.0	723.5	705.6	699.4	691.6
52°	701.6	590.9	531.1	506.0	496.3	492.6	489.5
60°	662.3	562.1	515.1	493.8	482.9	478.3	476.5
75°	634.1	541.8	503.5	483.4	468.6	457.4	448.1
90°	626.3	525.5	488.5	473.5	463.3	447.2	422.1
110°	618.4	517.7	480.7	456.3	434.5	421.6	401.6
120°	637.0	528.3	486.1	459.8	434.4	411.5	381.2
135°	707.4	575.2	507.8	477.2	452.1	427.2	380.0
150°	841.5	670.9	566.7	506.9	478.4	455.1	409.9
Run VMG	971.7	774.7	654.3	576.2	524.8	490.3	444.7
Selected Courses							
Windward / Leeward	1023.8	831.9	717.2	649.8	615.2	594.9	568.2
Circular Random	859.4	693.5	604.7	553.4	522.1	501.5	475.2
Coastal / Long Distance	1018.6	779.9	646.4	569.9	532.2	502.2	453.5
Non Spinnaker	931.2	744.0	642.0	582.0	545.0	521.0	491.0

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°	41.3°	40.9°	39.4°	38.8°	39.4°	39.4°
Beat VMG	3.35	4.05	4.62	4.98	5.10	5.15	5.21
52°	5.13	6.09	6.78	7.11	7.25	7.31	7.35
60°	5.44	6.40	6.99	7.29	7.46	7.53	7.56
75°	5.68	6.64	7.15	7.45	7.68	7.87	8.03
90°	5.75	6.85	7.37	7.60	7.77	8.05	8.53
110°	5.82	6.95	7.49	7.89	8.28	8.54	8.96
120°	5.65	6.81	7.41	7.83	8.29	8.75	9.44
135°	5.09	6.26	7.09	7.54	7.96	8.43	9.47
150°	4.28	5.37	6.35	7.10	7.52	7.91	8.78
Run VMG	3.70	4.65	5.50	6.25	6.86	7.34	8.09
Gybe Angles	144.5°	148.0°	150.0°	157.0°	174.0°	180.0°	180.0°