



ORC
Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **021/20**
Issued On **26/05/2020**
ORC Ref **02920000IUB**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 457kg
Maximum **530kg**
Minimum* **398kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	723.8	0.8290
Non Spin OSN	697.5	0.8602

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes** 43.92
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

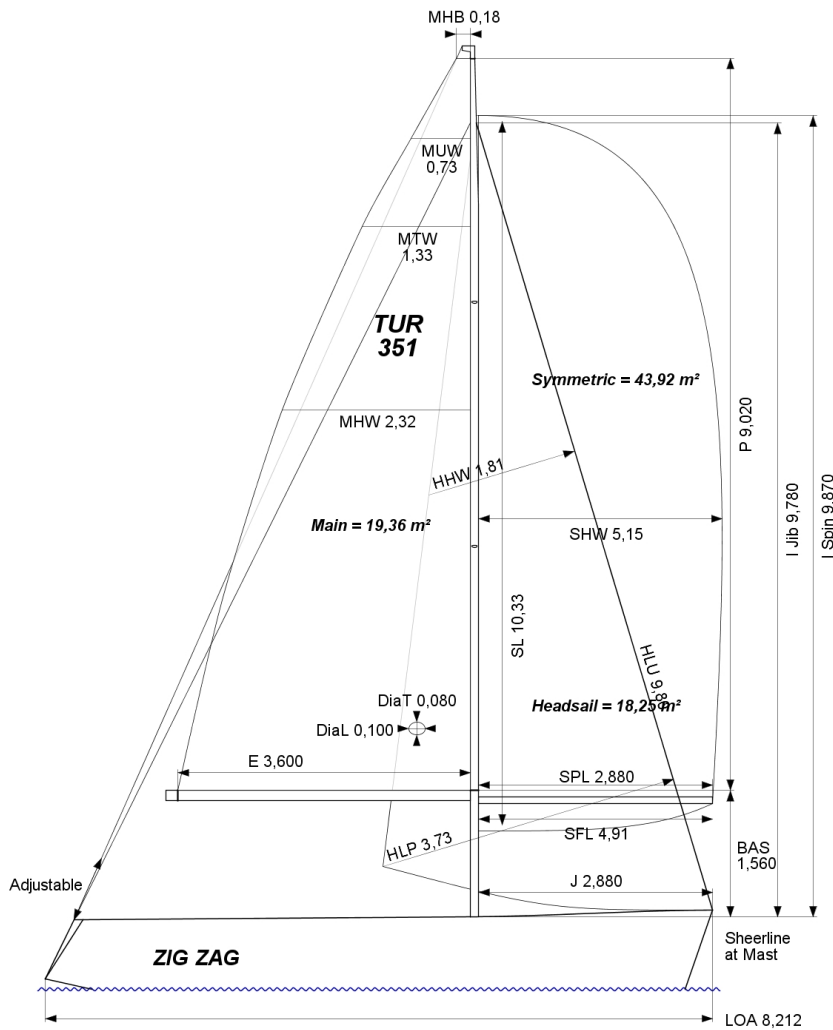
Class Division Length

CDL = 7.529

Stability (Estimated)

Limit Positive Stab.: **118.4°**
Stability Index: **114.6**

Owner



BOAT		GPH	HULL			
Name ZIG ZAG Sail Nr TUR-351		692.5	Data File TUR351	LOA 8.212m		
			Offset File GORBON26.off	MB 2.748m		
			Displacement 2,230kg	Draft 1.874m		
CLASS			IMS Division Performance	Dynamic All. 0.000%		
Class GORBON 26			Plan Review	Construction Cored		
Designer			Fiber Rigging No	Aramid Core No		
Builder			Crew Arm Ex	Carbon Rudder No		
Series 01/1997				Light Stanchions No		
Age Date 01/1997			IMSL 7.594m	VCGD -0.151m	Sink 11.04kg/mm	
Age Allowance 0.487%			RL 7.463m	VCGM -0.055m	WS 14.98m²	
COMMENTS			LSM0 7.508m	Displacement/Length ratio 5.2690		
			Water Ballast 0	Trim Tab No		
			BLR Index 0.0000			
PROPELLER			CENTERBOARD			
Installation Strut	PRD 0.350	N/A				
Type Folding 2 blades	PIPA 0.0005					
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	669.5			740.8		
Time on Time	0.8962			0.9112		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	798.4	612.4	541.0	1026.3	744.8	643.6
Time on Time	0.8454	1.1022	1.2477	0.6577	0.9063	1.0488

2020

ORC Club Certificate Appendix

BOAT	
Name ZIG ZAG	Certificate Number 021/20
Sail Nr TUR-351	Issued On 26/05/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1148.2	951.6	838.9	773.0	750.5	742.0	745.2
52°	759.8	638.1	586.0	561.3	548.9	544.0	541.9
60°	723.6	613.0	572.5	550.8	536.0	528.4	523.9
75°	700.4	600.0	562.6	540.9	521.0	504.4	489.7
90°	712.6	597.9	553.9	528.1	512.4	495.3	461.7
110°	714.8	594.1	549.0	517.9	487.4	461.3	431.2
120°	739.6	608.7	556.6	525.2	493.5	463.3	405.8
135°	820.8	666.8	582.2	546.1	516.6	486.5	427.4
150°	971.3	765.3	645.6	577.5	545.2	517.8	462.9
Run VMG	1121.6	883.8	743.5	650.7	588.0	552.9	500.0
Selected Courses							
Windward / Leeward	1134.9	917.7	791.2	711.9	669.2	647.5	622.6
Circular Random	958.3	772.1	671.7	613.0	576.4	552.1	520.6
Coastal / Long Distance	1133.6	863.4	717.1	630.3	587.1	554.0	495.6
Non Spinnaker	1014.0	811.4	701.1	636.2	595.8	569.5	537.7

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°	39.8°	37.3°	36.6°	36.2°	36.6°
Beat VMG	3.14	3.78	4.29	4.66	4.80	4.85	4.83
52°	4.74	5.64	6.14	6.41	6.56	6.62	6.64
60°	4.97	5.87	6.29	6.54	6.72	6.81	6.87
75°	5.14	6.00	6.40	6.66	6.91	7.14	7.35
90°	5.05	6.02	6.50	6.82	7.03	7.27	7.80
110°	5.04	6.06	6.56	6.95	7.39	7.80	8.35
120°	4.87	5.91	6.47	6.85	7.29	7.77	8.87
135°	4.39	5.40	6.18	6.59	6.97	7.40	8.42
150°	3.71	4.70	5.58	6.23	6.60	6.95	7.78
Run VMG	3.21	4.07	4.84	5.53	6.12	6.51	7.20
Gybe Angles	147.0°	151.0°	152.0°	162.0°	180.0°	180.0°	180.0°