



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **082/20**
Issued On **09/10/2020**
ORC Ref **02920000RPW**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 584kg
Maximum **640kg**
Minimum* **480kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	654.6	0.9166
Non Spin OSN	635.2	0.9445

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes 102.35**
Asymmetric: **Yes 91.34**
Flying H/S: **No**
Spin. Pole: **Yes**

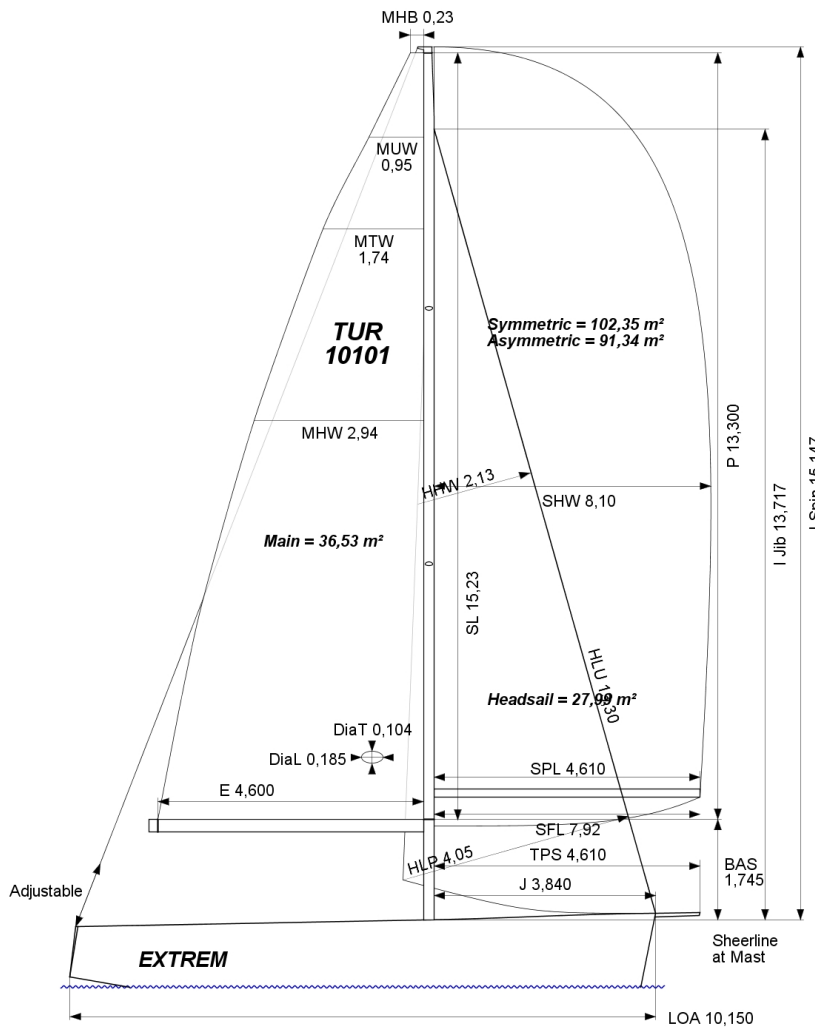
Class Division Length

CDL = 8.950

Stability (Estimated)

Limit Positive Stab.: **138.5°**
Stability Index: **138.7**

Owner



BOAT		GPH	HULL			
Name	EXTREM	612.6	Data File	TUR10101	LOA	10.150m
Sail Nr	TUR-10101		Offset File	MAT1010v.OFF	MB	3.314m
CLASS			Displacement	4,543kg	Draft	2.107m
Class	MAT 10.10		IMS Division	Cruiser/Racer	Dynamic All.	0.133%
Designer	MARK MILLS		Plan Review		Construction	Cored
Builder	MAT TURKEY		Fiber Rigging	No	Aramid Core	No
Series	01/2011		Crew Arm Ex		Carbon Rudder	No
Age Date	01/2016				Light Stanchions	No
Age Allowance	0.292%		IMSL	9.265m	VCGD	-0.230m
COMMENTS			RL	8.647m	VCGM	-0.239m
			WS			22.56m²
			LSM0	8.911m	Displacement/Length ratio	6.4204
PROPELLER			Water Ballast	0	Trim Tab	No
Installation	Strut	PRD	0.400	BLR Index	0.0000	
Type	Folding 2 blades	PBW	0.112	CENTERBOARD		
		PIPA	0.0032	NA		
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	596.5			664.6		
Time on Time	1.0059			1.0157		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	693.4	545.1	488.7	894.4	665.3	585.0
Time on Time	0.9735	1.2384	1.3811	0.7547	1.0146	1.1538

2020

ORC Club Certificate Appendix

BOAT	
Name	EXTREM
Sail Nr	TUR-10101
Certificate Number	082/20
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1040.5	860.0	759.9	718.1	702.7	696.8	684.3
52°	681.2	574.3	525.5	507.0	500.0	496.8	491.3
60°	643.2	550.2	512.3	495.1	486.3	482.2	478.2
75°	614.8	533.5	502.5	483.7	469.4	459.0	451.0
90°	596.7	516.3	488.7	475.9	463.5	446.5	422.0
110°	599.0	514.4	481.8	456.8	435.8	420.1	397.9
120°	621.3	521.4	484.8	456.7	431.0	409.0	373.4
135°	684.8	556.0	502.2	473.3	445.1	417.6	359.3
150°	807.2	645.3	548.5	501.6	474.7	448.6	398.1
Run VMG	932.1	745.1	631.8	565.3	517.7	487.4	438.1
Selected Courses							
Windward / Leeward	986.3	802.5	695.9	641.7	610.2	592.1	561.2
Circular Random	835.5	678.1	594.8	547.1	517.6	497.6	468.9
Coastal / Long Distance	980.8	753.7	630.9	565.8	530.1	500.6	449.3
Non Spinnaker	913.0	732.0	634.3	577.2	541.9	518.7	488.8

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°	41.3°	40.1°	39.0°	38.3°	38.3°	38.1°
Beat VMG	3.46	4.19	4.74	5.01	5.12	5.17	5.26
52°	5.28	6.27	6.85	7.10	7.20	7.25	7.33
60°	5.60	6.54	7.03	7.27	7.40	7.47	7.53
75°	5.86	6.75	7.16	7.44	7.67	7.84	7.98
90°	6.03	6.97	7.37	7.56	7.77	8.06	8.53
110°	6.01	7.00	7.47	7.88	8.26	8.57	9.05
120°	5.79	6.90	7.43	7.88	8.35	8.80	9.64
135°	5.26	6.47	7.17	7.61	8.09	8.62	10.02
150°	4.46	5.58	6.56	7.18	7.58	8.02	9.04
Run VMG	3.86	4.83	5.70	6.37	6.95	7.39	8.22
Gybe Angles	142.5°	148.0°	152.0°	159.0°	180.0°	180.0°	180.0°