



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **028/20**
Issued On **03/07/2020**
ORC Ref **02920000LTN**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 347kg
Maximum **340kg**
Minimum* **255kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **725.1 0.8275**
Non Spin OSN **697.0 0.8608**

Sails Limitations

Headsails **5** Spinnakers **4**
Woven Polyester
Asymmetric on centerline
Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 45.25**
Flying H/S: **No**
Spin. Pole: **No**

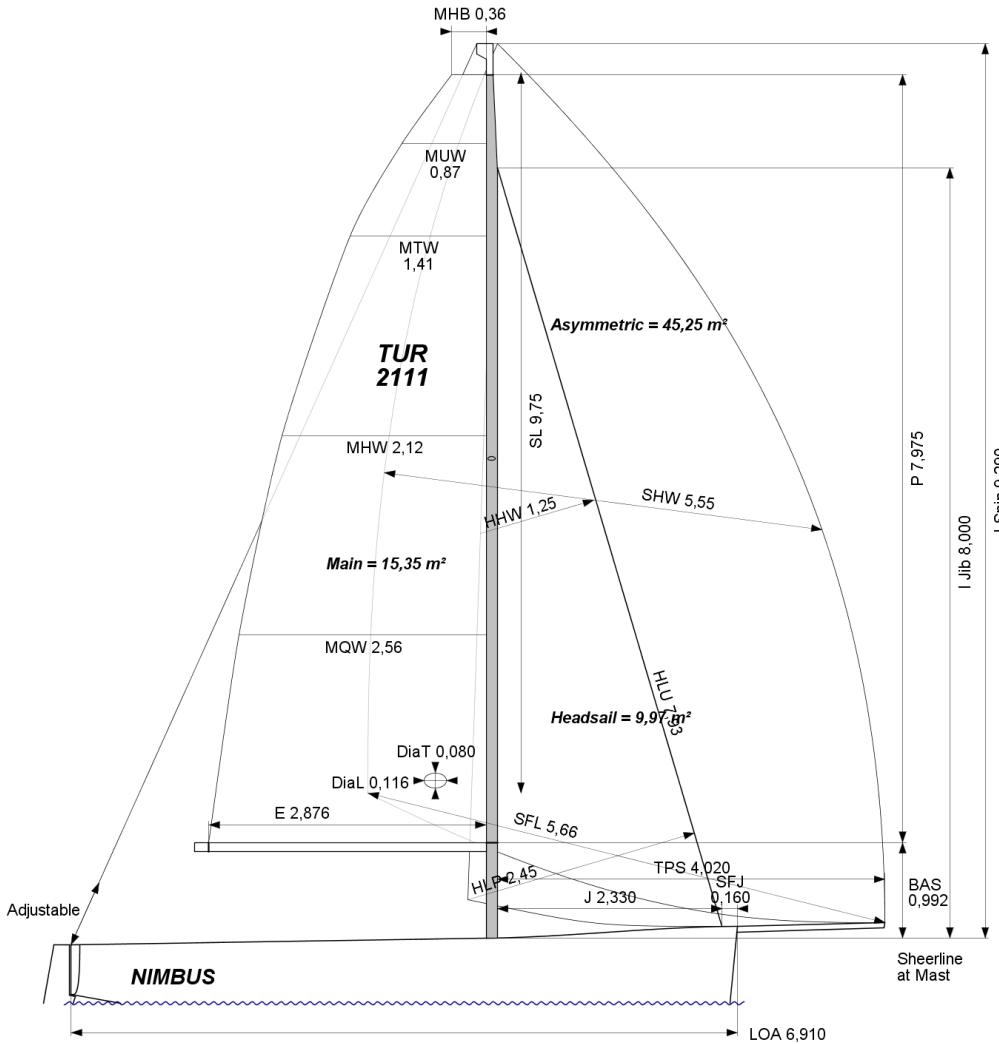
Class Division Length

CDL = 6.855

Stability (Estimated)

Limit Positive Stab.: **112.8°**
Stability Index: **104.1**

Owner



BOAT Name NIMBUS Sail Nr TUR-2111		GPH 671.0	HULL Data File TUR2111 LOA 6.910m Offset File j70.OD.OFF MB 2.254m Displacement 812kg Draft 1.382m			
CLASS Class J-70 ONE DESIGN Designer JOHNSTONE Builder J BOATS Series 02/2012 Age Date 02/2013 Age Allowance 0.260%			IMS Division Sportboat Dynamic All. 0.000% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex 0.50 Carbon Rudder No Light Stanchions No			
COMMENTS OUTBOARD ENGINE HONDA 2.3 CORRECTOR WEIGHTS 6 Kg			IMSL 6.690m VCGD -0.182m Sink 7.59kg/mm RL 7.033m VCGM -0.192m WS 9.18m² LSM0 6.183m Displacement/Length ratio 3.4352 Water Ballast 0 Trim Tab No BLR Index 0.0000			
PROPELLER Type No Propeller			CENTERBOARD N/A			
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	649.7			739.8		
Time on Time	0.9234			0.9124		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	770.4	598.1	507.7	992.2	747.4	636.6
Time on Time	0.8762	1.1286	1.3295	0.6803	0.9031	1.0604

2020

ORC Club Certificate Appendix

BOAT	
Name NIMBUS	Certificate Number 028/20
Sail Nr TUR-2111	Issued On 03/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1183.5	970.8	865.3	796.2	778.6	777.0	785.0
52°	776.8	647.7	598.0	568.9	551.3	545.6	542.8
60°	727.4	620.5	581.4	549.2	523.3	514.2	510.7
75°	695.6	603.9	565.6	528.5	490.3	465.4	451.6
90°	658.1	576.6	530.2	507.0	480.3	443.0	394.6
110°	649.2	568.0	507.5	455.6	426.4	403.9	355.2
120°	667.7	578.2	519.2	458.3	405.4	372.9	321.5
135°	744.7	612.8	554.7	500.4	444.1	392.5	278.2
150°	876.4	694.8	607.5	561.7	514.6	461.5	333.1
Run VMG	1011.9	802.2	701.4	648.6	594.2	532.9	384.7
Selected Courses							
Windward / Leeward	1097.7	886.5	783.4	722.4	686.4	655.0	584.8
Circular Random	926.8	749.2	652.3	592.8	551.7	519.9	468.8
Coastal / Long Distance	1089.2	832.7	706.3	622.2	568.7	521.8	437.3
Non Spinnaker	1020.1	815.2	702.8	634.9	590.7	559.8	517.3

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°	42.0°	40.9°	37.9°	37.1°	37.5°	38.6°
Beat VMG	3.04	3.71	4.16	4.52	4.62	4.63	4.59
52°	4.63	5.56	6.02	6.33	6.53	6.60	6.63
60°	4.95	5.80	6.19	6.55	6.88	7.00	7.05
75°	5.18	5.96	6.37	6.81	7.34	7.73	7.97
90°	5.47	6.24	6.79	7.10	7.50	8.13	9.12
110°	5.55	6.34	7.09	7.90	8.44	8.91	10.14
120°	5.39	6.23	6.93	7.85	8.88	9.65	11.20
135°	4.83	5.87	6.49	7.19	8.11	9.17	12.94
150°	4.11	5.18	5.93	6.41	7.00	7.80	10.81
Run VMG	3.56	4.49	5.13	5.55	6.06	6.76	9.36
Gybe Angles	145.0°	148.0°	150.5°	148.3°	145.0°	143.5°	137.5°