



ORC
Offshore Racing Congress
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**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **2936.1**
Issued On **31/07/2020**
ORC Ref **03570000NHV**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 559kg
Maximum **520kg**
Minimum* **390kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	689.6	0.8701
Non Spin OSN	667.4	0.8990

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes** **61.76**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

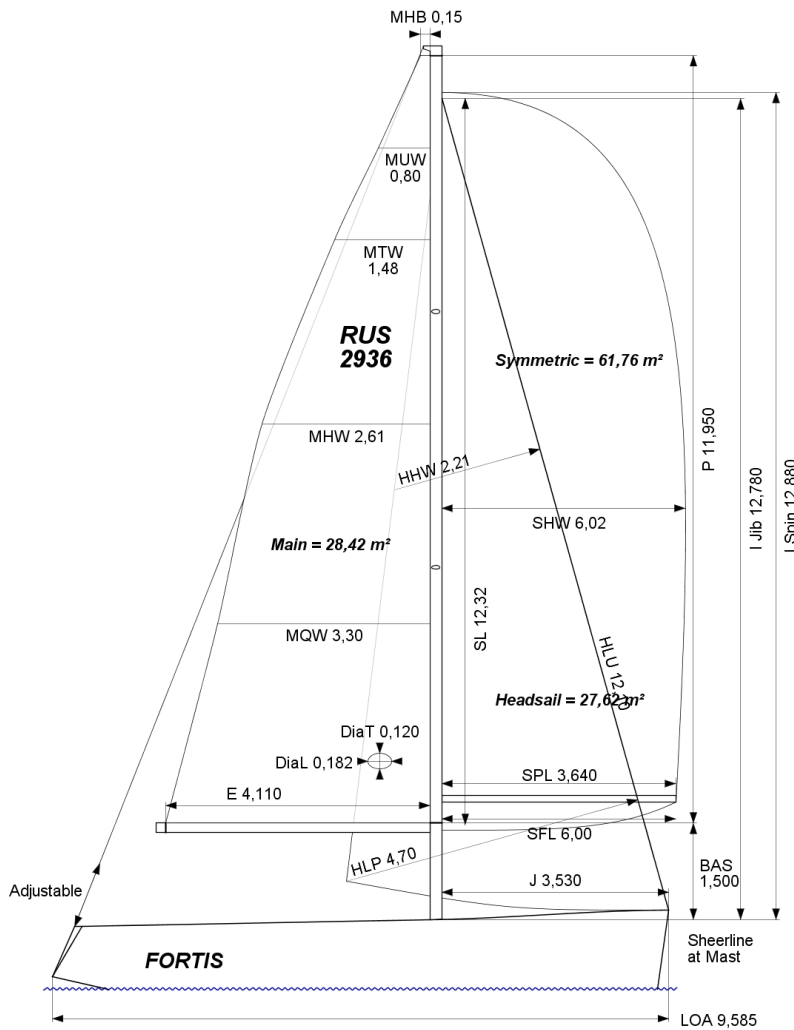
Class Division Length

CDL = 8.336

Stability (Estimated)

Limit Positive Stab.: **120.7°**
Stability Index: **120.8**

Owner



BOAT	GPH	HULL
Name Fortis Sail Nr RUS 2936	660.9	Data File RU2936_Fortis LOA 9.585m Offset File RO340.OFF MB 3.260m Displacement 4,392kg Draft 1.989m
CLASS Class RO 340 Designer RONAUTICA Builder MOA Series 01/1999 Age Date 01/2005 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.307% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS		IMSL 8.777m VCGD -0.075m Sink 15.58kg/mm RL 7.894m VCGM -0.013m WS 20.94m² LSM0 8.643m Displacement/Length ratio 6.8025
PROPELLER Installation Strut PRD 0.380 Type Folding 2 blades PIPA 0.0006		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD NA
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	641.3	712.0
Time on Time	0.9357	0.9480
Triple Number	Low Medium High	Low Medium High
Time on Distance	758.8 584.9 522.5	977.1 716.4 621.4
Time on Time	0.8896 1.1540 1.2918	0.6908 0.9422 1.0863

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	1101.3	919.6	811.5	751.5	730.4	722.3	728.0
52°	724.3	614.8	557.0	532.6	521.5	517.3	515.8
60°	686.5	586.5	541.9	521.1	509.2	503.3	500.3
75°	660.3	567.2	530.5	510.9	496.1	484.3	472.5
90°	668.8	568.4	523.2	501.6	491.4	475.9	450.5
110°	678.0	561.9	517.6	492.6	469.8	450.3	430.9
120°	699.6	575.8	523.6	497.2	474.0	451.4	414.0
135°	772.7	631.9	551.2	515.5	491.6	468.1	423.8
150°	911.1	723.4	614.1	547.2	515.2	492.8	449.2
Run VMG	1052.1	835.3	707.3	621.4	560.5	523.7	479.5
Selected Courses							
Windward / Leeward	1076.7	877.4	759.4	686.5	645.4	623.0	603.7
Circular Random	910.1	735.1	641.1	586.7	553.6	532.5	507.7
Coastal / Long Distance	1074.2	824.7	685.8	603.6	563.4	533.1	484.4
Non Spinnaker	962.0	771.6	668.2	607.6	570.6	547.0	519.3

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	42.4°	40.5°	40.5°	38.8°	38.3°	38.3°	39.0°
Beat VMG	3.27	3.91	4.44	4.79	4.93	4.98	4.94
52°	4.97	5.86	6.46	6.76	6.90	6.96	6.98
60°	5.24	6.14	6.64	6.91	7.07	7.15	7.20
75°	5.45	6.35	6.79	7.05	7.26	7.43	7.62
90°	5.38	6.33	6.88	7.18	7.33	7.56	7.99
110°	5.31	6.41	6.95	7.31	7.66	8.00	8.36
120°	5.15	6.25	6.88	7.24	7.59	7.97	8.70
135°	4.66	5.70	6.53	6.98	7.32	7.69	8.49
150°	3.95	4.98	5.86	6.58	6.99	7.31	8.01
Run VMG	3.42	4.31	5.09	5.79	6.42	6.87	7.51
Gybe Angles	146.5°	151.0°	152.5°	158.5°	180.0°	180.0°	180.0°