



2020 ORC Club Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **1616.6**
 Issued On **13/07/2020**
 ORC Ref **03570000MF5**
 VPP Ver. **2020 1.02**
 Valid until **31/12/2020**

Crew Weight

Default 637kg
 Maximum **637kg**
 Minimum* **478kg**
*when applied by the NoR and SI
 Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	676.4	0.8870
Non Spin OSN	654.9	0.9162

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes 73.56**
 Asymmetric: **No**
 Flying H/S: **No**
 Spin. Pole: **Yes**

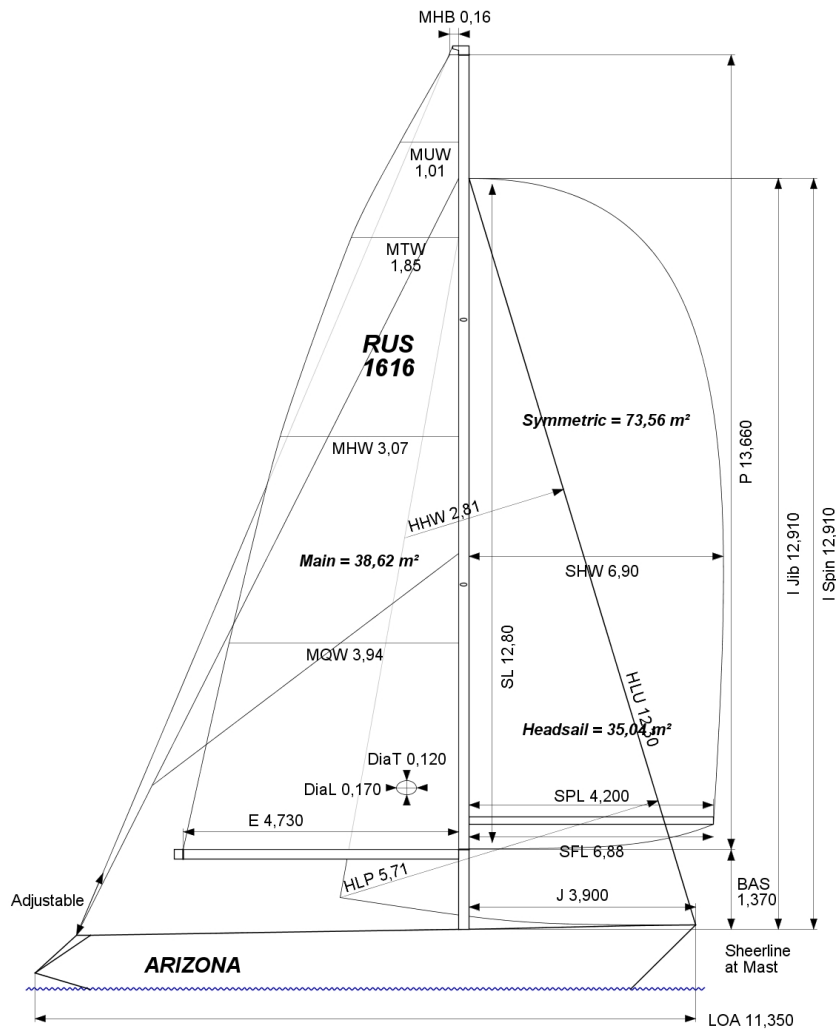
Class Division Length

CDL = **8.861**

Stability (Measured)

Limit Positive Stab.: **113.6°**
 Stability Index: **116.5**

Owner



BOAT	GPH	HULL
Name Arizona Sail Nr RUS 1616	651.7	Data File RU1616_Arizona LOA 11.350m Offset File LES-35.off MB 3.608m Displacement 6,715kg Draft 2.128m
CLASS Class LES-35 Designer V. Chaikin Builder Leningrad Exp.Yard Series 12/1985 Age Date 01/1992 Age Allowance 0.487%	IMS Division Cruiser/Racer Dynamic All. 0.410% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No	IMSL 9.475m VCGD -0.004m Sink 19.06kg/mm RL 8.250m VCGM 0.002m WS 27.50m² LSMO 9.472m Displacement/Length ratio 7.9017
COMMENTS Y.2002:FFM=1,089; FAM=0,88 Y.2015:DSPL=6716 Freeboards adjusted to DSPL ST5 is not measured	Water Ballast 0 Trim Tab No BLR Index 0.0000	
PROPELLER Installation Strut PRD 0.400 Type Folding 2 blades PBW 0.100 PIPA 0.0030	CENTERBOARD N/A	
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	632.4	702.2
Time on Time	0.9488	0.9613
Triple Number	Low Medium High	Low Medium High
Time on Distance	752.5 575.9 511.0	970.9 708.9 605.7
Time on Time	0.8970 1.1721 1.3210	0.6952 0.9522 1.1144

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	1076.6	899.4	793.9	735.2	710.9	698.8	693.2
52°	710.6	602.8	543.1	518.8	507.5	502.2	498.0
60°	674.4	574.6	527.8	507.4	495.9	489.3	483.8
75°	649.2	555.6	516.8	497.6	484.0	473.0	460.1
90°	657.8	558.0	512.3	490.1	477.5	465.6	442.5
110°	677.4	558.9	508.9	484.6	464.3	445.7	424.4
120°	700.6	576.8	516.3	489.8	469.4	449.4	415.4
135°	777.9	637.7	549.7	508.5	485.6	465.3	426.0
150°	922.8	729.8	619.4	545.2	508.4	486.7	448.4
Run VMG	1065.5	842.5	713.7	623.0	558.8	517.3	474.7
Selected Courses							
Windward / Leeward	1071.1	870.9	753.8	679.1	634.8	608.1	583.9
Circular Random	901.2	726.4	632.1	576.9	543.1	521.3	495.0
Coastal / Long Distance	1070.5	818.7	678.9	594.4	552.5	522.1	474.9
Non Spinnaker	945.7	757.8	655.5	595.0	557.6	533.5	504.4

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°	40.5°	39.4°	38.3°	37.9°	38.1°
Beat VMG	3.34	4.00	4.53	4.90	5.06	5.15	5.19
52°	5.07	5.97	6.63	6.94	7.09	7.17	7.23
60°	5.34	6.27	6.82	7.09	7.26	7.36	7.44
75°	5.54	6.48	6.97	7.23	7.44	7.61	7.83
90°	5.47	6.45	7.03	7.35	7.54	7.73	8.14
110°	5.31	6.44	7.07	7.43	7.75	8.08	8.48
120°	5.14	6.24	6.97	7.35	7.67	8.01	8.67
135°	4.63	5.64	6.55	7.08	7.41	7.74	8.45
150°	3.90	4.93	5.81	6.60	7.08	7.40	8.03
Run VMG	3.38	4.27	5.04	5.78	6.44	6.96	7.58
Gybe Angles	146.0°	151.0°	153.0°	156.5°	180.0°	180.0°	180.0°