



ORC
Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **US6226**
Issued On **21/10/2020**
ORC Ref **03410000S84**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 702kg
Maximum **650kg**
Minimum* **488kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **615.7 0.9745**
Non Spin OSN **598.6 1.0023**

Sails Limitations

Headsails **6** Spinnakers **4**
Asymmetric on centerline
Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 129.98**
Flying H/S: **No**
Spin. Pole: **No**

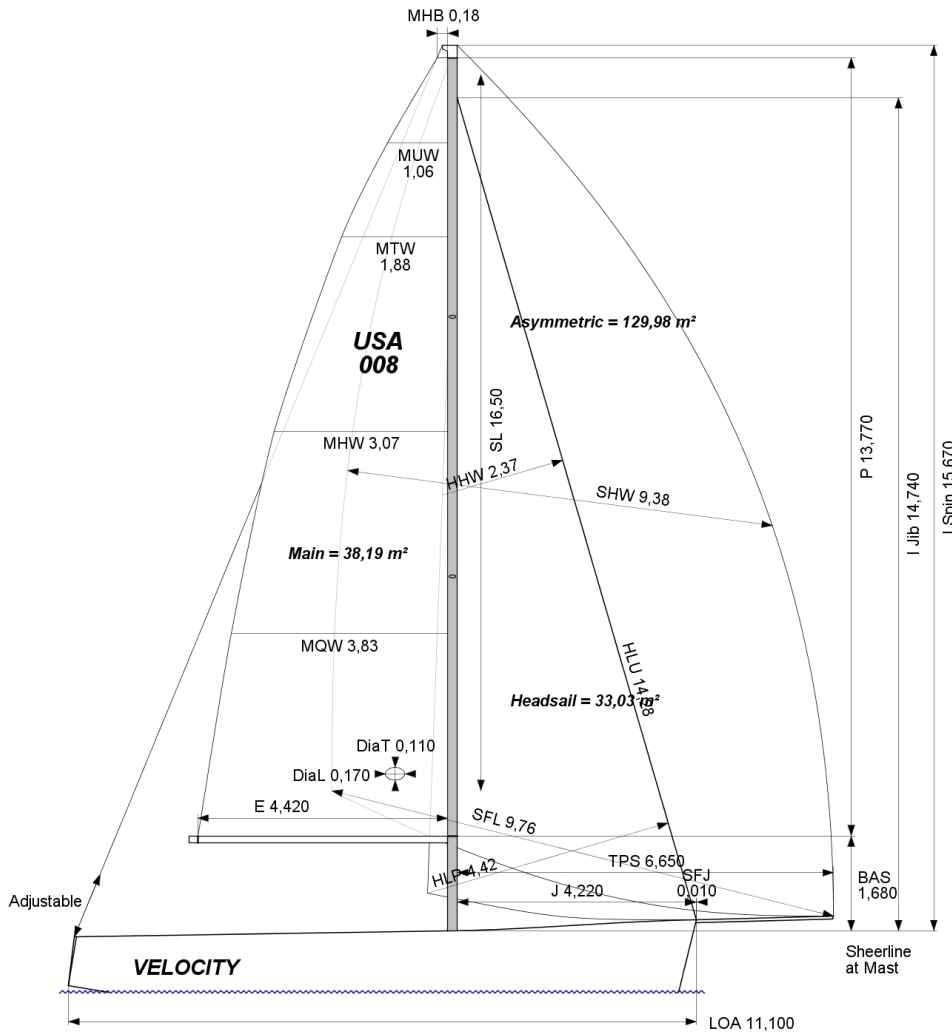
Class Division Length

CDL = 10.176

Stability (Measured)

Limit Positive Stab.: **125.2°**
Stability Index: **125.2**

Owner



BOAT Name Velocity Sail Nr USA 008		GPH 572.9	HULL Data File US6226 LOA 11.100m Offset File J111.OFF MB 3.294m Displacement 4,337kg Draft 2.192m IMS Division Performance Dynamic All. 0.000% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder Yes Light Stanchions No IMSL 10.438m VCGD -0.165m Sink 18.34kg/mm RL 9.933m VCGM -0.181m WS 23.76m² LSM0 10.138m Displacement/Length ratio 4.1623 Water Ballast 0 Trim Tab No BLR Index 0.0000																																																				
CLASS Class J 111 Designer Johnstone Builder J Boats Series 01/2011 Age Date 01/2011 Age Allowance 0.292%			<table border="1"> <tr> <th colspan="7">SCORING OPTIONS</th> </tr> <tr> <th rowspan="2">Time on Distance</th> <th colspan="3">COASTAL / LONG DISTANCE</th> <th colspan="3">WINDWARD / LEEWARD</th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Time on Time</td> <td colspan="3">1.0770</td> <td colspan="3">1.0769</td> </tr> <tr> <td>Triple Number</td> <td>Low</td><td>Medium</td><td>High</td> <td>Low</td><td>Medium</td><td>High</td> </tr> <tr> <td>Time on Distance</td> <td>647.5</td><td>509.9</td><td>456.2</td> <td>833.8</td><td>626.9</td><td>554.7</td> </tr> <tr> <td>Time on Time</td> <td>1.0424</td><td>1.3238</td><td>1.4797</td> <td>0.8095</td><td>1.0767</td><td>1.2169</td> </tr> </table>					SCORING OPTIONS							Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD									Time on Time	1.0770			1.0769			Triple Number	Low	Medium	High	Low	Medium	High	Time on Distance	647.5	509.9	456.2	833.8	626.9	554.7	Time on Time	1.0424	1.3238	1.4797	0.8095	1.0767	1.2169
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COMMENTS			CENTERBOARD N/A																																																				
PROPELLER Installation Strut PRD 0.408 Type Folding 2 blades PBW 0.115 PIPA 0.0037																																																							

2020

ORC Club Certificate Appendix

BOAT		Certificate Number	US6226
Name	Velocity	Issued On	21/10/2020
Sail Nr	USA 008		

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	959.8	784.0	697.7	670.0	658.7	648.3	640.0
52°	630.1	526.0	488.7	477.3	472.3	469.8	461.3
60°	596.0	507.7	477.2	464.5	458.5	455.3	444.8
75°	570.2	496.0	467.8	449.1	435.6	428.4	421.8
90°	577.2	491.6	467.3	445.2	423.7	406.7	389.0
110°	566.4	480.8	448.2	428.3	412.3	396.3	368.7
120°	579.0	485.6	449.4	417.1	394.5	376.8	345.3
135°	647.3	518.4	468.2	435.1	400.8	366.6	309.0
150°	767.6	610.7	517.1	471.1	446.7	418.1	350.0
Run VMG	886.3	705.2	597.1	543.6	515.8	482.8	404.2
Selected Courses							
Windward / Leeward	923.1	744.6	647.4	606.8	587.3	565.5	522.1
Circular Random	782.1	634.0	556.1	511.8	484.0	464.2	433.4
Coastal / Long Distance	919.4	700.4	587.8	530.0	498.4	468.1	414.8
Non Spinnaker	860.9	689.3	596.5	542.1	508.0	485.1	454.5

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°	39.4°	37.9°	37.5°	37.1°	37.3°
Beat VMG	3.75	4.59	5.16	5.37	5.47	5.55	5.62
52°	5.71	6.84	7.37	7.54	7.62	7.66	7.80
60°	6.04	7.09	7.54	7.75	7.85	7.91	8.09
75°	6.31	7.26	7.70	8.02	8.26	8.40	8.54
90°	6.24	7.32	7.70	8.09	8.50	8.85	9.25
110°	6.36	7.49	8.03	8.40	8.73	9.08	9.76
120°	6.22	7.41	8.01	8.63	9.12	9.55	10.43
135°	5.56	6.94	7.69	8.27	8.98	9.82	11.65
150°	4.69	5.89	6.96	7.64	8.06	8.61	10.28
Run VMG	4.06	5.11	6.03	6.62	6.98	7.46	8.91
Gybe Angles	143.5°	146.0°	149.0°	151.5°	149.0°	146.3°	142.5°