



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **US6209**
Issued On **30/10/2020**
ORC Ref **03410000SJ5**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default **1,825kg**
Maximum **1,825kg**
Minimum* **1,369kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	419.1	1.4316
Non Spin OSN	413.4	1.4513

Sails Limitations

Headsails **8** Spinnakers **6**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 436.41**
Flying H/S: **Yes 160.95**
Spin. Pole: **No**

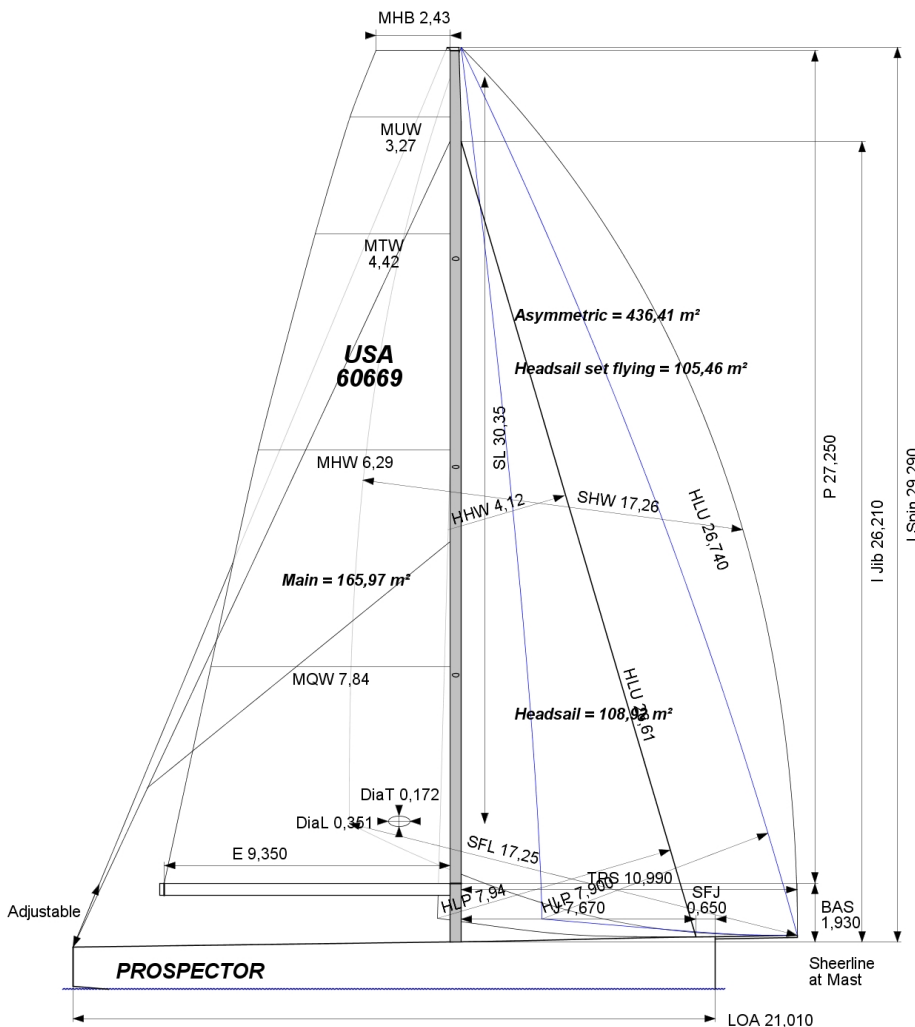
Class Division Length

CDL = 20.438

Stability (Estimated)

Limit Positive Stab.: **156.7°**
Stability Index: **165.6**

Owner



BOAT	GPH	HULL
Name PROSPECTOR Sail Nr USA-60669	388.2	Data File US6209 LOA 21.010m Offset File US42414.OFF MB 4.756m Displacement 15,109kg Draft 4.708m
CLASS Class Unknown Designer MILLS Builder NEBW Series 02/2008 Age Date 02/2008 Age Allowance 0.390%		IMS Division Performance Dynamic All. 0.000% Plan Review Construction Carbon Fiber Rigging No Aramid Core Yes Crew Arm Ex 0.00 Carbon Rudder Yes Light Stanchions No
COMMENTS no incline performed needs BAS + Incline for ORCI		IMSL 20.215m VCGD -1.853m Sink 47.14kg/mm RL 20.649m VCGM -1.877m WS 63.93m² LSM0 19.815m Displacement/Length ratio 1.9420
PROPELLER Type No Propeller		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	381.2	433.4
Time on Time	1.5741	1.5574
Triple Number	Low Medium High	Low Medium High
Time on Distance	444.2 346.6 295.1	585.8 439.9 369.1
Time on Time	1.5196 1.9473 2.2872	1.1523 1.5344 1.8290

2020

ORC Club Certificate Appendix

BOAT							
Name	PROSPECTOR	Certificate Number		US6209			
Sail Nr	USA-60669	Issued On		30/10/2020			

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	630.9	532.9	489.0	464.7	449.0	436.2	427.9
52°	405.2	354.5	337.0	327.0	318.4	309.2	297.8
60°	375.8	339.1	323.9	311.1	301.2	293.7	279.3
75°	353.5	321.7	301.6	286.6	275.7	267.4	251.3
90°	351.6	316.3	286.2	270.5	257.6	248.4	234.7
110°	375.6	333.8	304.0	274.2	248.9	232.7	208.2
120°	417.7	347.3	313.6	288.4	260.7	241.9	205.6
135°	480.9	373.8	329.5	294.8	264.2	244.0	209.7
150°	577.0	444.2	374.3	333.0	306.9	274.6	217.8
Run VMG	666.3	512.9	432.2	389.7	354.4	317.1	251.5
Selected Courses							
Windward / Leeward	648.6	522.9	460.6	427.2	401.7	376.6	339.7
Circular Random	534.4	432.8	377.5	343.5	320.1	302.3	275.0
Coastal / Long Distance	650.4	490.7	412.6	364.8	333.1	304.5	257.9
Non Spinnaker	585.3	470.4	407.0	367.9	341.3	321.6	292.9

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	44.3°	42.0°	39.8°	38.3°	36.8°	36.0°	35.6°
Beat VMG	5.71	6.76	7.36	7.75	8.02	8.25	8.41
52°	8.88	10.16	10.68	11.01	11.31	11.64	12.09
60°	9.58	10.62	11.12	11.57	11.95	12.26	12.89
75°	10.18	11.19	11.94	12.56	13.06	13.46	14.32
90°	10.24	11.38	12.58	13.31	13.97	14.49	15.34
110°	9.59	10.79	11.84	13.13	14.47	15.47	17.29
120°	8.62	10.37	11.48	12.48	13.81	14.88	17.51
135°	7.49	9.63	10.93	12.21	13.63	14.75	17.16
150°	6.24	8.10	9.62	10.81	11.73	13.11	16.53
Run VMG	5.40	7.02	8.33	9.24	10.16	11.35	14.31
Gybe Angles	141.0°	140.5°	146.1°	151.0°	145.8°	143.3°	145.3°