

BOAT Name PROSPECTOR Sail Nr USA-60669	GPH 390.6	HULL Length Overall 21.010m Maximum Beam 4.756m Displacement 15,109kg Draft 4.708m IMS Reg. Division Performance Dynamic Allowance 0.005% Fwd Accommodation No Hull Construction Carbon, Aramid Carbon Rudder Yes Crew Arm Extension 0.00
GENERAL Class Unknown Designer MILLS Builder NEBW Series 02/2008 Age 02/2008 Age Allowance 0.357% Offset File US42414.OFF - 03/06/2014 09:54:00 Measurement by - 28/05/2014		IMSL 20.215m VCGD -1.841m Sink 47.14kg/mm RL 20.694m VCGM -1.865m WS 63.93m² LSM0 19.815m Displacement/Length ratio 1.9420



ORC
Offshore Racing Congress
World leader in rating technology

2019
ORC International
Certificate

Rating Office

Offshore
Racing
Congress



SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	381.2			432.4		
Time on Time	1.5739			1.5610		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	448.9	348.0	295.0	587.1	438.9	367.6
Time on Time	1.5038	1.9395	2.2878	1.1498	1.5378	1.8360

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	639.1	530.3	486.9	464.2	446.6	433.8	425.7
52°	412.7	354.5	337.0	326.9	319.1	307.8	296.4
60°	383.9	339.8	323.5	311.3	302.2	292.4	278.0
75°	362.5	326.6	302.4	287.4	277.2	269.6	250.1
90°	364.3	326.4	295.3	272.5	258.6	248.1	233.7
110°	404.1	342.2	314.6	288.0	260.3	235.6	207.7
120°	427.4	346.8	312.9	291.8	266.4	244.2	208.4
135°	480.6	373.4	329.1	294.2	263.6	243.4	210.3
150°	577.0	443.9	374.1	333.5	306.5	274.1	217.5
Run VMG	666.3	512.6	432.0	389.5	353.9	316.5	251.1

Certificate
Number **US6209**
ORC Ref **USAX027FI62**
Issued On **17/05/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

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	418.4	1.4340
Non Spin OSN	412.7	1.4537

Selected Courses							
Windward / Leeward	652.7	521.4	459.4	426.9	400.2	375.1	338.4
Circular Random	540.8	436.4	379.6	344.7	320.7	302.3	274.3
Coastal / Long Distance	654.0	490.0	412.4	365.4	333.7	304.1	257.8
Non Spinnaker	584.6	469.7	406.3	367.2	340.5	320.8	292.1

Sails Limitations

Headsails	Spinnakers
8	6

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	43.6°	41.7°	39.1°	38.1°	36.6°	35.5°	35.3°
Beat VMG	5.63	6.79	7.39	7.76	8.06	8.30	8.46
52°	8.72	10.16	10.68	11.01	11.28	11.70	12.15
60°	9.38	10.59	11.13	11.56	11.91	12.31	12.95
75°	9.93	11.02	11.90	12.52	12.99	13.35	14.39
90°	9.88	11.03	12.19	13.21	13.92	14.51	15.41
110°	8.91	10.52	11.44	12.50	13.83	15.28	17.33
120°	8.42	10.38	11.51	12.34	13.51	14.74	17.27
135°	7.49	9.64	10.94	12.24	13.66	14.79	17.12
150°	6.24	8.11	9.62	10.79	11.75	13.14	16.55
Run VMG	5.40	7.02	8.33	9.24	10.17	11.38	14.34
Gybe Angles	140.9°	140.3°	146.2°	150.8°	145.5°	143.2°	145.3°

Class Division Length
CDL = **20.456**

Storm Sails Areas
Heavy Weather Jib **92.85**
Storm Jib (JL=17.05) **34.39**
Storm Triesail **44.59**

Owner

BOAT			
Name	PROSPECTOR	Sail Nr	USA-60669
File	US6209	Data in	meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date		13/06/2017	SG 1.0200
FFM	1.681	FF	1.687
FAM	1.373	FA	1.372
SFFP	1.500	SAFP	20.999
W1	226.9	PD1	465.4
W2	226.9	PD2	465.4
W3	226.9	PD3	465.4
W4	226.9	PD4	465.4
WD	23.610	GSA	1.0
RSA	1.0	PLM	9000.0
LCF from stem on CL / on sheer		11.664 / 11.879	
Maximum beam station from stem		15.000	
RM Measured		906.5kg·m	
RM Default		944.9kg·m	
Limit of positive stability / Stab.Index		156.6° / 165.5	
Freeboard at mast at 8.320		1.537	



ORC
Offshore Racing Congress
World leader in rating technology

2019
IMS Measurement
Certificate

RIG			
Forestay Tension	Aft	Spreaders	3
Inner Stay	None Fitted	Runners	2
Carbon Mast	Yes	Jumper Struts	None
Taper Hollows	No	Jib Furler	
Fiber Rigging	No	Main Furler	No
Lenticular Rigging	No	Without Backstay	No
Articulated Bowsprit	No		
P	27.250	E	9.350
IG	26.105	J	7.670
ISP	29.250	SFJ	0.650
BAS	1.930	SPL	0.000
FSP	0.080	TPS	10.990
MDT1	0.170	MW	0.350
MDL1	0.352	GO	0.385
MDT2	0.152	BD	0.480
MDL2	0.240	MWT	448.00
TL	3.900	MCG	10.870

MIZZEN RIG AND SAILS			
N/A			

PROPELLER			
Type No Propeller			

Certificate			
Number US6209			
ORC Ref USAX027FI62			
Issued On 17/05/2019			
VPP Ver. 2019 1.01			
Valid until 31/12/2019			

COMMENTS			

MOVABLE BALLAST			
N/A			



CENTERBOARD			
N/A			

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	2.430	3.27	4.42	6.29	7.84	165.97	169.92	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	Formula		
	32.76	27.93	30.34	17.26	17.25	436.41	AS · (SFL + 4·SHW) / 6		

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.23	1.27	2.26	4.12	5.95	7.94	26.61	108.92					2018 MEDIUM JIB J2-8

MEASUREMENT INVENTORY				
Measurer				
Date				
Comment				
Id	Item	Weight	Distance	VCG Description
a	Anchor	0.0	0.00	
Id	Item	Weight	Distance	VCG Description

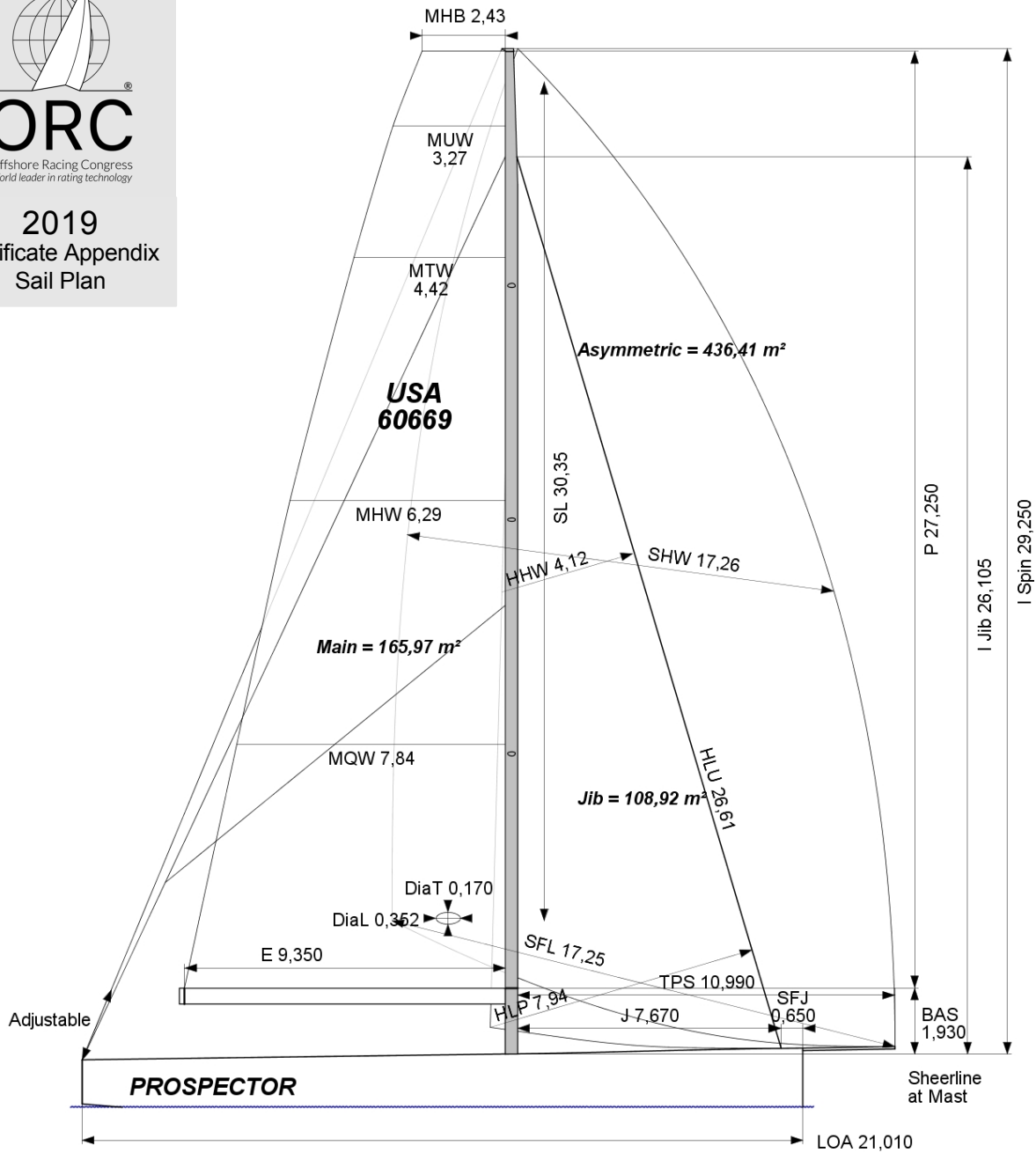
MEASUREMENT INVENTORY									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
	Tank					0.00	0.00	30.2	
Id	Item	Weight	Distance	VCG Description					



ORC

Offshore Racing Congress
World leader in rating technology

2019
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1588881	2.43	3.27	4.42	6.29	7.84	165.97			MARK		2018 SQUARE TOP					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1588869	0.23	1.27	2.26	4.12	5.95	7.94	26.61	104%	108.92					NORTH		2018 MEDIUM JIB J2-
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1588861	32.76	27.93	30.34	17.26	17.25	436.42	asym			NORTH		2018 A2				