



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **US6716**
Issued On **22/09/2020**
ORC Ref **03410000QRL**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 631kg
Maximum **631kg**
Minimum* **473kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	660.0	0.9091
Non Spin OSN	638.9	0.9392

Sails Limitations

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

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 120.31**
Flying H/S: **No**
Spin. Pole: **No**

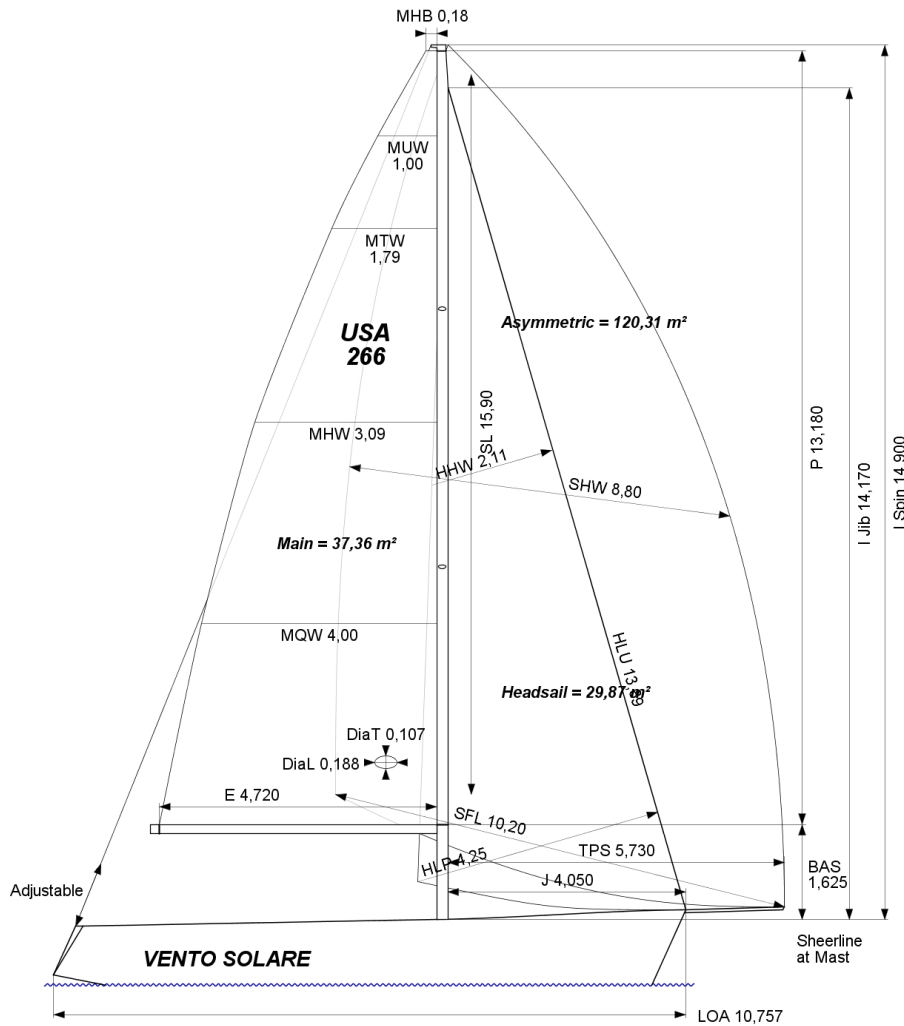
Class Division Length

CDL = 9.168

Stability (Measured)

Limit Positive Stab.: **119.0°**
Stability Index: **118.2**

Owner



BOAT		GPH	HULL			
Name	VENTO SOLARE	616.6	Data File	US6716 LOA 10.757m		
Sail Nr	USA-266		Offset File	F199.OFF MB 3.524m		
			Displacement	4,941kg Draft 2.124m		
CLASS			IMS Division	Cruiser/Racer Dynamic All. 0.182%		
Class	J109		Plan Review	Construction Cored		
Designer	R. Alan Johnstone		Fiber Rigging	No Aramid Core No		
Builder	Pearson Composites		Crew Arm Ex	0.00 Carbon Rudder No		
Series	09/2001			Light Stanchions No		
Age Date	03/2002		IMSL	9.598m VCGD -0.015m Sink 18.17kg/mm		
Age Allowance	0.487%		RL	8.751m VCGM -0.039m WS 24.53m²		
COMMENTS			LSM0	9.413m Displacement/Length ratio 5.9242		
			Water Ballast	0 Trim Tab No		
			BLR Index	0.0000		
PROPELLER			CENTERBOARD			
Installation	Strut	PRD	0.000			
Type	Folding 2 blades	PIPA	0.0032			
			N/A			
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	599.8			672.5		
Time on Time	1.0004			1.0038		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	701.7	547.0	492.7	907.4	673.8	595.1
Time on Time	0.9620	1.2340	1.3701	0.7439	1.0018	1.1342

2020

ORC Club Certificate Appendix

BOAT			
Name	VENTO SOLARE	Certificate Number	US6716
Sail Nr	USA-266	Issued On	22/09/2020

TIME ALLOWANCES								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat VMG	1058.1	872.5	764.9	713.8	697.0	690.3	677.4	
52°	691.3	581.8	526.6	505.1	497.1	493.5	488.3	
60°	652.7	555.5	512.4	493.4	483.8	479.5	475.6	
75°	624.8	537.2	501.7	482.3	467.9	457.3	448.7	
90°	614.9	520.1	492.1	479.8	462.3	445.5	422.2	
110°	602.1	510.2	476.6	453.0	438.1	426.6	404.7	
120°	616.5	517.1	479.8	451.6	426.2	408.3	383.3	
135°	692.5	557.1	498.4	469.2	440.9	414.0	360.0	
150°	817.6	653.8	553.2	503.7	481.0	461.5	414.1	
Run VMG	944.1	754.9	638.8	581.2	552.3	509.9	463.6	
Selected Courses								
Windward / Leeward	1001.1	813.7	701.9	647.5	624.7	600.1	570.5	
Circular Random	844.1	683.3	598.3	549.9	520.6	501.1	474.2	
Coastal / Long Distance	995.4	763.3	634.9	566.6	532.5	502.6	454.7	
Non Spinnaker	926.3	740.3	639.1	579.7	543.0	518.9	487.7	

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°	40.5°	38.6°	38.3°	38.3°	37.9°	
Beat VMG	3.40	4.13	4.71	5.04	5.16	5.22	5.31	
52°	5.21	6.19	6.84	7.13	7.24	7.30	7.37	
60°	5.52	6.48	7.03	7.30	7.44	7.51	7.57	
75°	5.76	6.70	7.17	7.46	7.69	7.87	8.02	
90°	5.85	6.92	7.32	7.50	7.79	8.08	8.53	
110°	5.98	7.06	7.55	7.95	8.22	8.44	8.90	
120°	5.84	6.96	7.50	7.97	8.45	8.82	9.39	
135°	5.20	6.46	7.22	7.67	8.17	8.69	10.00	
150°	4.40	5.51	6.51	7.15	7.49	7.80	8.69	
Run VMG	3.81	4.77	5.64	6.19	6.52	7.06	7.77	
Gybe Angles	144.0°	148.0°	148.3°	150.5°	174.0°	177.0°	177.5°	