



ORC
Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **117/20**
Issued On **18/07/2020**
ORC Ref **0388000MP7**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 590kg
Maximum **650kg**
Minimum* **488kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	680.5	0.8817
Non Spin OSN	658.8	0.9108

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes** **71.05**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

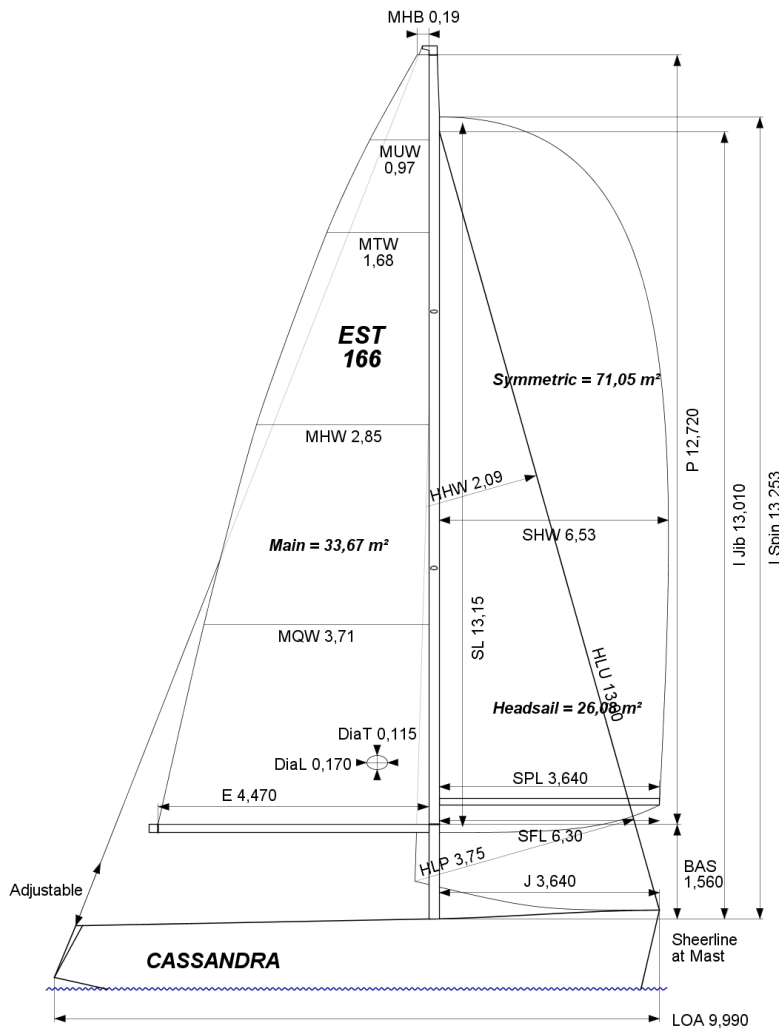
Class Division Length

CDL = 8.552

Stability (Measured)

Limit Positive Stab.: **126.0°**
Stability Index: **125.8**

Owner



BOAT		GPH	HULL			
Name Cassandra Sail Nr EST 166		648.5	Data File EST166	LOA 9.990m		
			Offset File F235.OFF	MB 3.372m		
			Displacement 4,674kg	Draft 2.003m		
CLASS			IMS Division Cruiser/Racer	Dynamic All. 0.227%		
Class First 34.7			Plan Review	Construction Solid		
Designer Benetau			Fiber Rigging No	Aramid Core No		
Builder Farr			Crew Arm Ex	Carbon Rudder No		
Series 10/2005				Light Stanchions No		
Age Date 01/2018			IMSL 9.127m	VCGD -0.075m		
Age Allowance 0.487%			RL 7.985m	VCGM -0.063m		
			WS 22.27m²			
COMMENTS			LSM0 8.980m	Displacement/Length ratio 6.4545		
			Water Ballast 0	Trim Tab No		
			BLR Index 0.0000			
PROPELLER			CENTERBOARD			
Installation Strut	PRD 0.410		NA			
Type Folding 2 blades	PIPA 0.0030					
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	629.7			702.1		
Time on Time	0.9528			0.9614		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	745.8	573.5	511.3	964.1	705.6	611.7
Time on Time	0.9051	1.1769	1.3201	0.7001	0.9567	1.1035

2020

ORC Club Certificate Appendix

BOAT	
Name	Cassandra
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Sail Nr	EST 166
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1103.8	916.9	806.4	747.2	728.0	721.6	715.3
52°	719.0	607.5	548.4	523.0	512.5	508.7	506.1
60°	678.8	577.3	531.9	510.6	499.0	494.0	491.7
75°	650.5	556.6	519.8	499.9	484.7	472.9	462.7
90°	657.9	551.9	509.1	488.8	479.4	463.0	437.0
110°	656.3	544.9	503.6	478.2	454.5	436.1	416.4
120°	677.6	558.3	509.5	483.1	458.4	434.6	397.2
135°	750.3	611.2	534.9	501.3	477.1	452.5	406.6
150°	886.1	703.7	596.2	532.3	501.5	478.8	433.9
Run VMG	1023.2	812.5	687.1	604.4	546.2	510.5	465.5
Selected Courses							
Windward / Leeward	1063.5	864.7	746.8	675.8	637.1	616.0	590.4
Circular Random	894.7	721.8	629.0	575.3	542.4	521.2	494.2
Coastal / Long Distance	1059.5	811.3	673.2	592.6	553.0	522.4	471.1
Non Spinnaker	952.3	762.4	659.2	598.6	561.3	537.3	507.4

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	42.9°	41.4°	41.3°	39.8°	39.0°	39.4°	39.4°
Beat VMG	3.26	3.93	4.46	4.82	4.95	4.99	5.03
52°	5.01	5.93	6.56	6.88	7.02	7.08	7.11
60°	5.30	6.24	6.77	7.05	7.21	7.29	7.32
75°	5.53	6.47	6.93	7.20	7.43	7.61	7.78
90°	5.47	6.52	7.07	7.36	7.51	7.78	8.24
110°	5.48	6.61	7.15	7.53	7.92	8.26	8.65
120°	5.31	6.45	7.07	7.45	7.85	8.28	9.06
135°	4.80	5.89	6.73	7.18	7.55	7.96	8.85
150°	4.06	5.12	6.04	6.76	7.18	7.52	8.30
Run VMG	3.52	4.43	5.24	5.96	6.59	7.05	7.73
Gybe Angles	145.5°	150.0°	152.0°	158.0°	180.0°	180.0°	180.0°