



World Leader in Rating Technology

2018 ORC Club Certificate

Rating Office

Hungarian Yachting Association
Istvanmezei ut 1-3
H-1146 Budapest
HUNGARY



Certificate

Number **034/18**
Issued On **03/09/2018**
ORC Ref **HUN10015527**
VPP Ver. **2018 1.00**
Valid until **31/12/2018**

Crew Weight

Default 1,703kg
Maximum **1,703kg**
Minimum* **1,277kg**
**when applied by the NoR and SI*
Non Manual Pwr

Special Scoring

	ToD	ToT
Non Spin GPH	478.2	1.2547
Non Spin OSN	467.3	1.2839

Sails Limitations

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

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 439.92**
Flying H/S: **Yes 209.83**
Spin. Pole: **No**

Class Division Length

CDL = 18.279

Stability (Estimated)

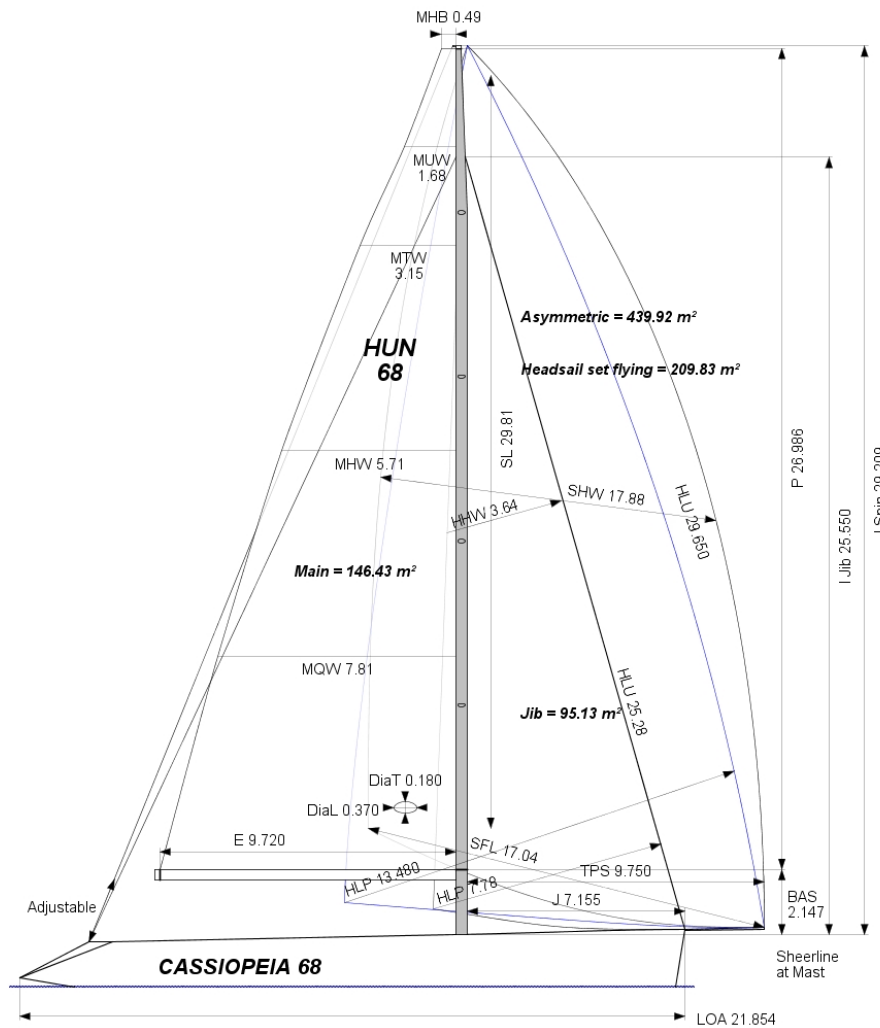
Limit Positive Stab.: **138.8°**
Stability Index: **150.6**

Owner

Cassiopeia 68 Ltd
18/2 South Street
1102 Valetta
MALTA

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



BOAT	GPH	HULL
Name Cassiopeia 68 Sail Nr HUN-68	430.8	Data File HUN68 LOA 21.854m Offset File cassiopeia.OFF MB 5.238m Displacement 22,998kg Draft 4.376m
CLASS Class Marten 68 Designer Reichel/Pugh Builder Marten Yachts Series 01/2009 Age Date 01/2009 Age Allowance 0.292%		IMS Division Cruiser/Racer Dynamic All. 0.033% Fwd Accom. No Construction Carbon Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder Yes Light Stanchions No
COMMENTS		IMSL 19.070m VCGD -0.573m Sink 53.92kg/mm RL 17.485m VCGM -0.591m WS 71.76m² LSM0 18.871m Displacement/Length ratio 3.4222
PROPELLER Installation Shaft exposed PRD 0.480 Type Folding 3 or 4 blades PIPA 0.0023		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	423.1	478.7
Time on Time	1.4180	1.4102
Triple Number	Low Medium High	Low Medium High
Time on Distance	487.0 384.5 339.8	644.1 480.9 416.2
Time on Time	1.3860 1.7556 1.9867	1.0480 1.4036 1.6220



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ORC Club Certificate Appendix

BOAT	
Name	Cassiopeia 68
Sail Nr	HUN-68
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	692.6	586.1	534.4	505.0	489.5	479.6	461.5
52°	446.9	387.7	364.9	353.0	346.9	343.1	334.8
60°	415.4	367.8	352.0	342.4	336.2	332.0	324.4
75°	386.5	350.5	337.3	328.1	319.7	312.7	304.7
90°	381.6	345.7	328.7	316.4	307.5	300.0	284.3
110°	409.6	359.0	340.1	322.9	304.5	288.4	265.6
120°	456.2	378.2	342.6	323.0	303.6	283.1	261.5
135°	525.3	415.0	358.3	333.6	309.8	286.5	251.9
150°	630.5	493.3	410.7	364.7	337.3	320.8	277.6
Run VMG	728.0	569.6	474.3	422.2	391.5	370.5	320.6
Selected Courses							
Windward / Leeward	710.3	577.8	504.3	463.6	440.5	425.0	391.0
Circular Random	586.7	477.1	418.7	384.5	362.4	346.5	322.0
Coastal / Long Distance	712.1	541.5	452.6	401.0	372.3	349.1	309.3
Non Spinnaker	678.1	539.3	463.0	417.2	387.5	366.8	338.6

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	43.9°	41.6°	40.1°	38.5°	38.1°	37.5°	36.4°
Beat VMG	5.20	6.14	6.74	7.13	7.36	7.51	7.80
52°	8.06	9.28	9.87	10.20	10.38	10.49	10.75
60°	8.67	9.79	10.23	10.51	10.71	10.84	11.10
75°	9.31	10.27	10.67	10.97	11.26	11.51	11.82
90°	9.44	10.41	10.95	11.38	11.71	12.00	12.66
110°	8.79	10.03	10.58	11.15	11.82	12.48	13.56
120°	7.89	9.52	10.51	11.15	11.86	12.72	13.77
135°	6.85	8.68	10.05	10.79	11.62	12.56	14.29
150°	5.71	7.30	8.77	9.87	10.67	11.22	12.97
Run VMG	4.94	6.32	7.59	8.53	9.20	9.72	11.23
Gybe Angles	141.3°	139.7°	145.2°	151.0°	153.2°	150.4°	146.0°