



ORC

Offshore Racing Congress
World leader in rating technology

**2019
ORC Club
Certificate**

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



Certificate

Number **022/19**
Issued On **07/06/2019**
ORC Ref **HUN10025650**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight

Default 762kg
Maximum **420kg**
Minimum* **315kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	635.3	0.9444
Double H.OSN	615.6	0.9746
Non Spin GPH	662.8	0.9053
Non Spin OSN	640.0	0.9375

Sails Limitations

Headsails **1** Spinnakers **3**

Spinnaker configuration

Symmetric: **Yes** **83.10**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 9.754

Stability (Estimated)

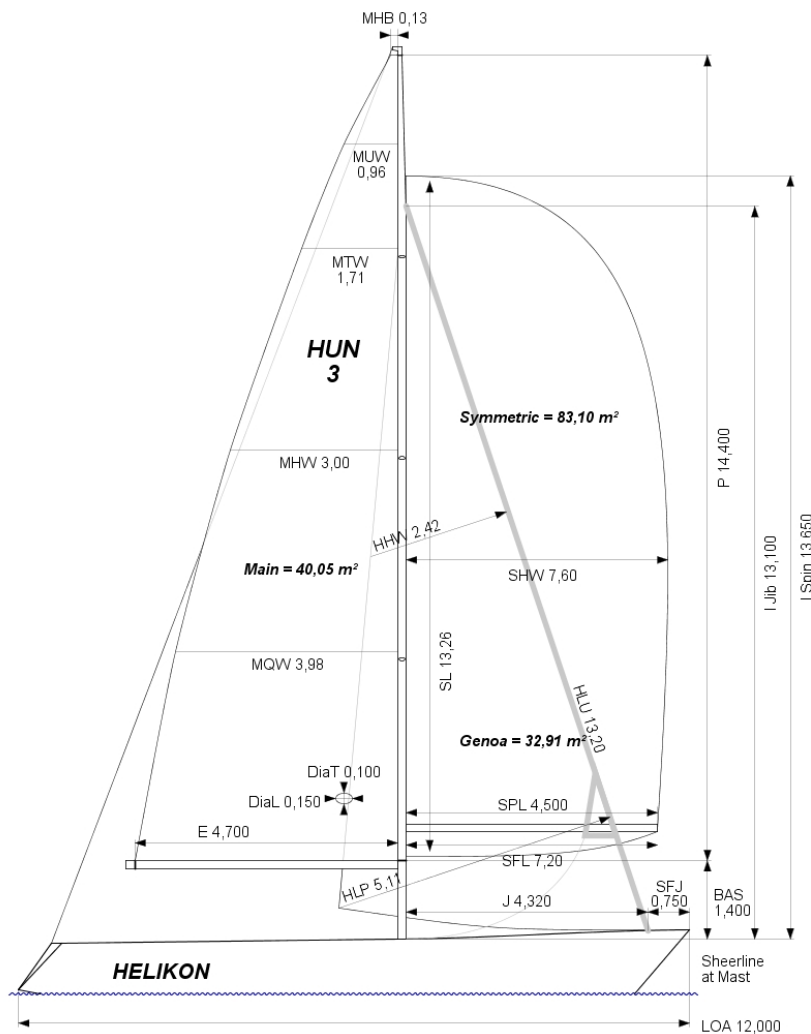
Limit Positive Stab.: **98.4°**
Stability Index: **102.6**

Owner

Rudolf Andorka
Zakonyi f.u. 6
8230 Balatonfüred
HUNGARY

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

Signature



BOAT		GPH		HULL			
Name	Helikon			Data File	HUN3	LOA	12.000m
Sail Nr	HUN-3			Offset File	BB12TouringHe	MB	3.500m
			630.7	Displacement	6 538kg	Draft	2.056m
CLASS				IMS Division	Cruiser/Racer	Dynamic All.	0.318%
Class	BB-12 Touring			Fwd Accom.	No	Construction	Solid
Designer	Boerresen			Fiber Rigging	No	Aramid Core	No
Builder	Boerresen			Crew Arm Ex	No	Carbon Rudder	No
Series	01/1988					Light Stanchions	No
Age Date	01/1988			IMSL	10.804m	VCGD	0.203m
Age Allowance	0.487%			RL	8.703m	VCGM	0.212m
				WS	29.56m²		
				LSM0	10.739m	Displacement/Length ratio	5.2790
COMMENTS				Water Ballast	0	Trim Tab	No
				BLR Index	0.0000		
PROPELLER				CENTERBOARD			
Installation	Strut	PRD	0.400				
Type	Feathering 2 blades	PBW	0.100				N/A
		PIPA	0.0037				
SCORING OPTIONS							
		COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance		610.2			682.1		
Time on Time		0.9832			0.9895		
Triple Number		Low	Medium	High	Low	Medium	High
Time on Distance		740.0	553.7	488.1	961.9	687.9	584.8
Time on Time		0.9122	1.2190	1.3829	0.7017	0.9812	1.1542

2019

ORC Club Certificate Appendix

BOAT	
Name Helikon	Certificate Number 022/19
Sail Nr HUN-3	Issued On 07/06/2019

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1098.7	894.0	779.8	715.8	692.4	682.4	674.3
52°	713.1	595.1	526.0	496.6	486.4	482.0	478.6
60°	671.8	565.9	507.4	483.3	473.0	468.6	465.4
75°	641.6	543.8	494.9	472.7	459.3	450.4	443.0
90°	648.2	539.2	485.8	467.2	454.6	440.4	419.4
110°	650.1	533.6	480.3	455.3	435.4	421.3	402.4
120°	671.5	549.7	488.0	459.9	437.8	416.2	385.7
135°	749.4	605.9	522.7	479.9	455.8	433.5	388.9
150°	900.8	705.9	593.2	521.8	481.0	458.2	416.0
Run VMG	1040.2	815.1	684.7	597.3	538.3	494.2	447.8
Selected Courses							
Windward / Leeward	1069.4	854.6	732.2	656.5	615.3	588.3	561.0
Circular Random	883.3	706.7	610.8	554.7	520.3	498.3	471.9
Coastal / Long Distance	1066.5	801.7	656.5	570.8	528.7	497.7	450.4
Non Spinnaker	941.3	747.7	641.1	577.9	538.9	513.8	484.1

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°	40.8°	39.9°	39.0°	38.6°	38.5°
Beat VMG	3.28	4.03	4.62	5.03	5.20	5.28	5.34
52°	5.05	6.05	6.84	7.25	7.40	7.47	7.52
60°	5.36	6.36	7.09	7.45	7.61	7.68	7.74
75°	5.61	6.62	7.27	7.62	7.84	7.99	8.13
90°	5.55	6.68	7.41	7.71	7.92	8.17	8.58
110°	5.54	6.75	7.50	7.91	8.27	8.54	8.95
120°	5.36	6.55	7.38	7.83	8.22	8.65	9.33
135°	4.80	5.94	6.89	7.50	7.90	8.30	9.26
150°	4.00	5.10	6.07	6.90	7.48	7.86	8.65
Run VMG	3.46	4.42	5.26	6.03	6.69	7.29	8.04
Gybe Angles	144.6°	149.2°	151.2°	154.3°	166.8°	180.0°	180.0°