



ORC

Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

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



Certificate

Number **029/20**
Issued On **29/07/2020**
ORC Ref **03880000NBE**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 648kg
Maximum **648kg**
Minimum* **486kg**
**when applied by the NoR and SI*
Non Manual Pwr

Special Scoring

ToD ToT
Non Spin GPH **665.9 0.9010**
Non Spin OSN **645.5 0.9295**

Sails Limitations

Headsails **1** Spinnakers **4**

Spinnaker configuration

Symmetric: **Yes 73.16**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 9.114

Stability (Measured)

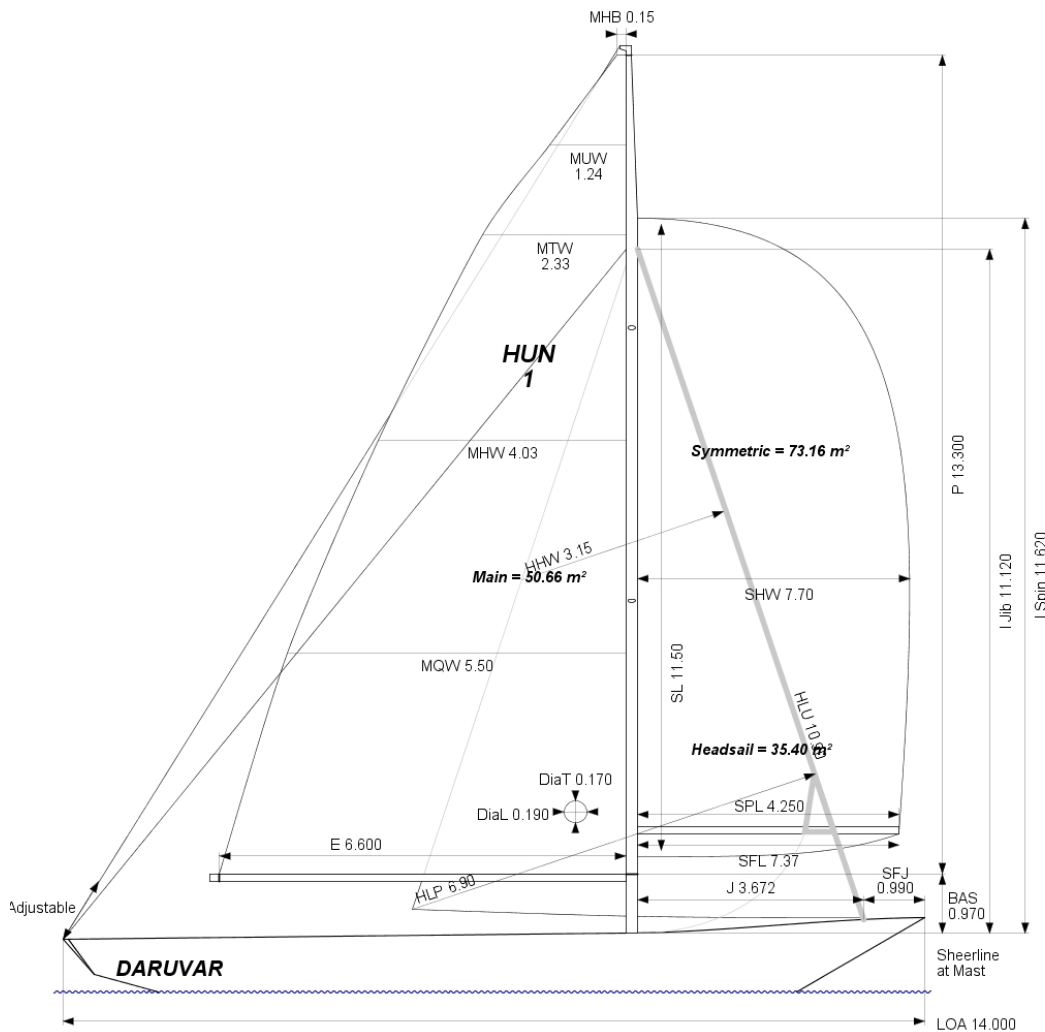
Limit Positive Stab.: **137.1°**
Stability Index: **144.5**

Owner

Rudolf Barinkay
Budenz út 3/
1021 Budapest
HUNGARY

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

Signature



BOAT		GPH		HULL					
Name Daruvar		646.4		Data File HUN 60-1	LOA 14.000m				
Sail Nr HUN-1				Offset File DARUVAR.OFF	MB 3.008m				
				Displacement 8,592kg	Draft 1.817m				
CLASS				IMS Division Cruiser/Racer	Dynamic All. 0.417%				
Class 60-er Seefahrtkre				Plan Review	Construction Solid				
Designer Jenő Benacsek				Fiber Rigging No	Aramid Core No				
Builder Balatonfüred SY				Crew Arm Ex	Carbon Rudder No				
Series 01/1937				Light Stanchions No					
Age Date 01/1937				IMSL 10.371m	VCGD -0.507m	Sink 19.22kg/mm			
Age Allowance 0.487%				RL 7.863m	VCGM -0.350m	WS 30.54m²			
COMMENTS				LSM0 9.590m	Displacement/Length ratio 9.7418				
				Water Ballast	Trim Tab No				
				BLR Index 0.0000					
PROPELLER				CENTERBOARD					
Installation In Aperture	PRD 0.350			N/A					
Type Solid 2 blades	PBW 0.100								
	PIPA 0.0086								
SCORING OPTIONS									
	COASTAL / LONG DISTANCE				WINDWARD / LEEWARD				
Time on Distance	627.1				705.6				
Time on Time	0.9568				0.9566				
Triple Number	Low	Medium	High	Low	Medium	High			
Time on Distance	766.0	566.5	492.7	1004.3	714.4	595.6			
Time on Time	0.8812	1.1916	1.3700	0.6721	0.9448	1.1334			

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ORC Club Certificate Appendix

BOAT	
Name Daruvar	Certificate Number 029/20
Sail Nr HUN-1	Issued On 29/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1136.3	931.6	815.8	753.0	719.4	700.7	684.4
52°	734.4	611.0	534.8	500.7	486.4	478.5	471.0
60°	685.9	574.7	509.9	483.0	469.7	462.8	455.9
75°	648.9	545.0	492.8	469.9	455.7	445.4	434.7
90°	653.4	545.6	489.5	463.2	450.2	437.3	416.2
110°	673.6	548.3	485.0	457.7	438.9	422.1	405.1
120°	698.4	567.5	494.2	462.9	442.9	424.8	393.4
135°	783.4	634.1	533.9	483.5	458.4	439.3	404.0
150°	948.4	739.2	616.5	531.2	484.7	460.2	424.6
Run VMG	1095.2	854.0	711.9	610.4	545.7	497.8	449.9
Selected Courses							
Windward / Leeward	1115.7	892.8	763.8	681.7	632.6	599.3	567.2
Circular Random	911.4	727.1	625.8	565.7	528.2	504.0	475.5
Coastal / Long Distance	1113.7	835.6	680.1	585.4	536.8	502.1	451.5
Non Spinnaker	945.3	751.5	644.4	580.3	540.0	513.5	481.5

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	44.3°	42.8°	42.8°	43.1°	42.0°	41.3°	40.9°
Beat VMG	3.17	3.86	4.41	4.78	5.00	5.14	5.26
52°	4.90	5.89	6.73	7.19	7.40	7.52	7.64
60°	5.25	6.26	7.06	7.45	7.66	7.78	7.90
75°	5.55	6.61	7.30	7.66	7.90	8.08	8.28
90°	5.51	6.60	7.35	7.77	8.00	8.23	8.65
110°	5.34	6.57	7.42	7.86	8.20	8.53	8.89
120°	5.15	6.34	7.28	7.78	8.13	8.47	9.15
135°	4.60	5.68	6.74	7.45	7.85	8.20	8.91
150°	3.80	4.87	5.84	6.78	7.43	7.82	8.48
Run VMG	3.29	4.22	5.06	5.90	6.60	7.23	8.00
Gybe Angles	146.0°	151.0°	150.0°	153.0°	162.0°	180.0°	180.0°