



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 **030/19**
Issued On **16/07/2019**
ORC Ref **HUN10025936**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight

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

Special Scoring

	ToD	ToT
Double H.GPH	653.5	0.9181
Double H.OSN	634.6	0.9455
Non Spin GPH	666.9	0.8997
Non Spin OSN	646.1	0.9286

Sails Limitations

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

Spinnaker configuration

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

Class Division Length

CDL = 9.116

Stability (Measured)

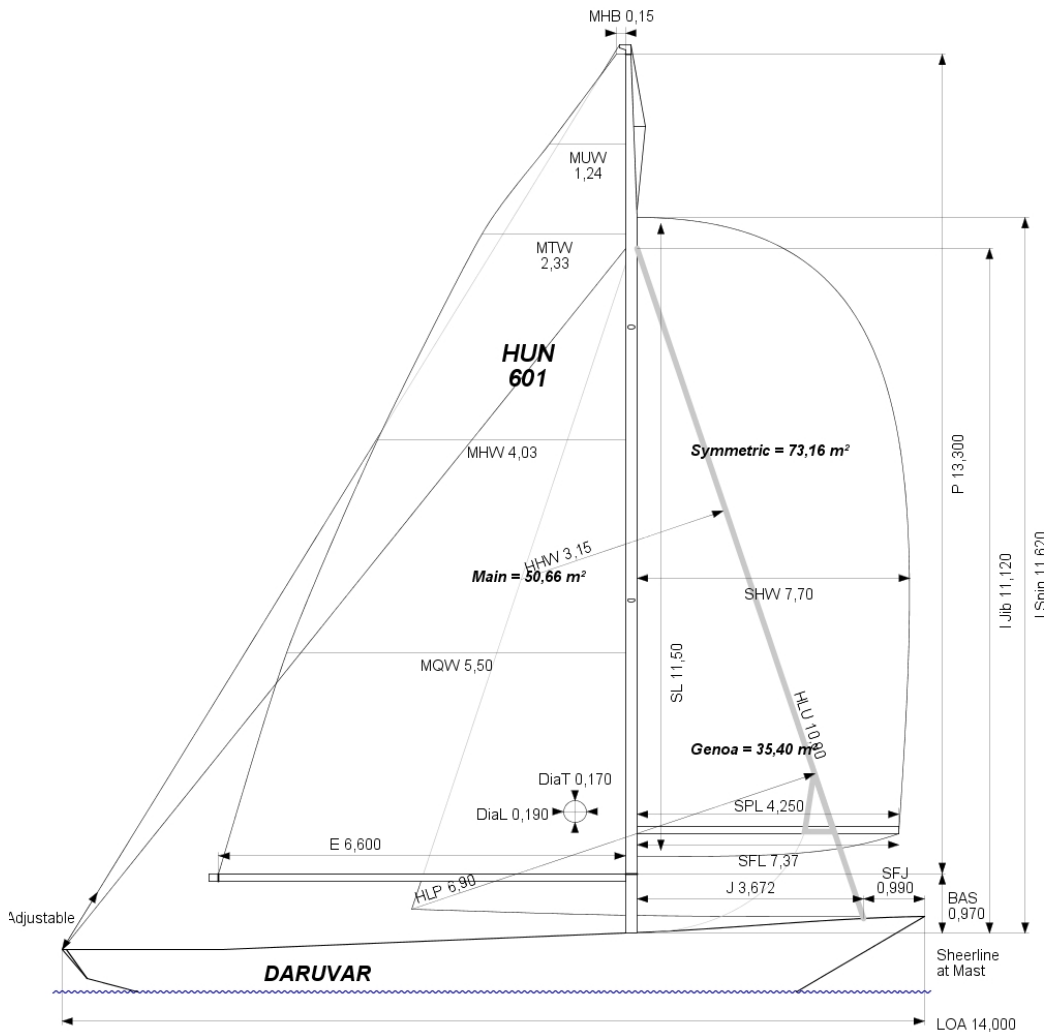
Limit Positive Stab.: **137.1°**
Stability Index: **144.5**

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		647.2	Data File	HUN 60-1	
Sail Nr	HUN 60-1			Offset File	DARUVAR.OFF	
				Displacement	8 592kg	
				LOA	14.000m	
				MB	3.008m	
				Draft	1.817m	
CLASS		IMS Division Cruiser/Racer Dynamic All. 0.420%				
Class	60-er Seefahrtkreu	Fwd Accom.	Yes	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	
Age Allowance	0.487%	RL	7.860m	VCGM	-0.350m	
		WS	30.54m²	Sink	19.22kg/mm	
		LSM0	9.590m	Displacement/Length ratio	9.7418	
COMMENTS		Water Ballast 0 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	627.6			706.3		
Time on Time	0.9560			0.9557		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	768.1	566.9	492.6	1007.6	715.2	595.6
Time on Time	0.8788	1.1907	1.3704	0.6699	0.9438	1.1333

2019

ORC Club Certificate Appendix

BOAT	
Name Daruvar	Certificate Number 030/19
Sail Nr HUN 60-1	Issued On 16/07/2019

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1143.4	932.9	816.7	753.2	719.3	700.5	683.8
52°	733.4	611.8	535.3	500.8	486.1	478.1	470.6
60°	686.8	575.5	510.3	483.1	469.4	462.5	455.4
75°	650.0	545.7	493.1	470.0	455.7	445.1	434.1
90°	654.7	546.4	489.6	463.0	450.2	437.2	415.9
110°	674.7	549.0	485.2	457.8	438.9	421.9	404.6
120°	699.9	568.5	494.6	463.0	442.9	424.9	393.2
135°	786.0	635.5	534.8	483.8	458.5	439.4	404.2
150°	951.3	741.0	617.6	532.2	485.0	460.4	424.7
Run VMG	1098.5	855.9	713.1	611.5	546.4	498.2	450.1
Selected Courses							
Windward / Leeward	1120.9	894.4	764.9	682.3	632.9	599.4	566.9
Circular Random	913.8	728.4	626.6	566.0	528.3	503.9	475.2
Coastal / Long Distance	1118.7	837.1	680.9	585.7	536.8	502.0	451.2
Non Spinnaker	947.8	753.0	645.3	580.8	540.2	513.6	481.3

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	44.6°	42.6°	42.8°	43.1°	42.0°	41.3°	40.9°
Beat VMG	3.15	3.86	4.41	4.78	5.00	5.14	5.26
52°	4.91	5.88	6.73	7.19	7.41	7.53	7.65
60°	5.24	6.26	7.05	7.45	7.67	7.78	7.91
75°	5.54	6.60	7.30	7.66	7.90	8.09	8.29
90°	5.50	6.59	7.35	7.77	8.00	8.23	8.66
110°	5.34	6.56	7.42	7.86	8.20	8.53	8.90
120°	5.14	6.33	7.28	7.78	8.13	8.47	9.16
135°	4.58	5.66	6.73	7.44	7.85	8.19	8.91
150°	3.78	4.86	5.83	6.76	7.42	7.82	8.48
Run VMG	3.28	4.21	5.05	5.89	6.59	7.23	8.00
Gybe Angles	146.0°	150.7°	150.0°	153.2°	162.5°	180.0°	180.0°