



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 **020/19**
Issued On **06/06/2019**
ORC Ref **HUN10025642**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight

Default 512kg
Maximum **480kg**
Minimum* **360kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	633.1	0.9477
Double H.OSN	622.2	0.9643
Non Spin GPH	659.4	0.9099
Non Spin OSN	643.8	0.9320

Sails Limitations

Headsails **5** Spinnakers **3**

Spinnaker configuration
Symmetric: **Yes** 122.91
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

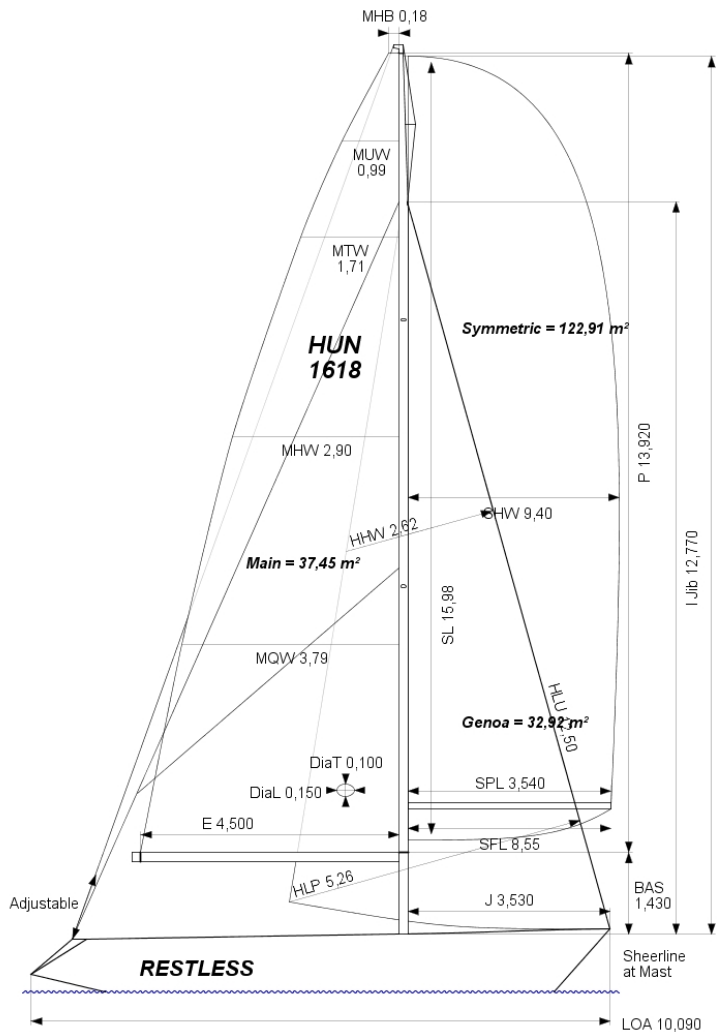
Class Division Length
CDL = **8.103**

Stability (Measured)
Limit Positive Stab.: **110.5°**
Stability Index: **106.4**

Owner
Dr Bence Babicsák
8360 Keszthely
Pázmány 66
HUNGARY

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

Signature



BOAT		GPH		HULL		
Name	Restless			Data File	HUN1618	
Sail Nr	HUN-1618			Offset File	F034.bof	
		623.2		Displacement	3 808kg	
				LOA	10.090m	
				MB	3.410m	
				Draft	1.871m	
CLASS		IMS Division Performance				
Class	DB 1	Dynamic All.	0.000%			
Designer	Van Der Stadt	Fwd Accom.	Yes			
Builder	Dehler	Fiber Rigging	No			
Series	12/1980, CIN Build No. 00035	Crew Arm Ex	No			
Age Date	04/1981	Carbon Rudder	No			
Age Allowance	0.487%	Light Stanchions	No			
COMMENTS		IMSL	8.165m	VCGD	0.078m	
		RL	8.039m	VCGM	0.086m	
		WS	19.26m²			
		LSM0	8.130m Displacement/Length ratio 7.0864			
		Water Ballast	0			
		Trim Tab	No			
		BLR Index	0.0000			
PROPELLER		CENTERBOARD				
Installation	Shaft exposed	PRD	0.460			
Type	Folding 2 blades	PBW	0.115			
		PIPA	0.0037			
		N/A				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	610.0			675.8		
Time on Time	0.9836			0.9989		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	683.5	561.4	515.2	869.3	676.9	608.7
Time on Time	0.9876	1.2023	1.3102	0.7765	0.9972	1.1090

2019

ORC Club Certificate Appendix

BOAT	
Name Restless	Certificate Number 020/19
Sail Nr HUN-1618	Issued On 06/06/2019

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	988.5	834.1	768.2	744.8	734.8	733.1	727.8
52°	658.8	571.2	543.2	533.4	528.6	526.1	521.5
60°	626.4	555.9	531.5	520.0	514.1	510.9	507.0
75°	603.6	545.7	520.9	504.1	492.4	485.9	480.6
90°	607.6	544.4	517.8	497.5	479.9	466.4	452.3
110°	599.6	529.7	502.7	486.9	474.1	464.2	442.9
120°	609.2	532.3	498.7	472.4	456.6	446.4	425.8
135°	673.0	556.2	513.4	481.8	453.4	429.1	394.4
150°	789.1	643.7	554.4	512.3	482.7	455.6	407.3
Run VMG	911.2	743.3	636.6	571.2	527.1	497.8	446.2
Selected Courses							
Windward / Leeward	949.9	788.7	702.4	658.0	631.0	615.4	587.0
Circular Random	828.6	681.9	606.5	564.6	539.5	522.9	499.9
Coastal / Long Distance	946.0	744.8	641.2	584.6	551.9	526.1	481.8
Non Spinnaker	894.6	728.2	640.5	590.6	560.2	540.3	514.5

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	41.0°	40.7°	38.8°	38.1°	37.8°	38.1°	38.2°
Beat VMG	3.64	4.32	4.69	4.83	4.90	4.91	4.95
52°	5.46	6.30	6.63	6.75	6.81	6.84	6.90
60°	5.75	6.48	6.77	6.92	7.00	7.05	7.10
75°	5.96	6.60	6.91	7.14	7.31	7.41	7.49
90°	5.93	6.61	6.95	7.24	7.50	7.72	7.96
110°	6.00	6.80	7.16	7.39	7.59	7.75	8.13
120°	5.91	6.76	7.22	7.62	7.88	8.07	8.46
135°	5.35	6.47	7.01	7.47	7.94	8.39	9.13
150°	4.56	5.59	6.49	7.03	7.46	7.90	8.84
Run VMG	3.95	4.84	5.65	6.30	6.83	7.23	8.07
Gybe Angles	142.1°	148.6°	152.8°	163.8°	180.0°	180.0°	180.0°