



World Leader in Rating Technology

2018 ORC Club Certificate

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



Certificate

Number **021/18**
Issued On **26/06/2018**
ORC Ref **HUN10014753**
VPP Ver. **2018 1.00**
Valid until **31/12/2018**

Crew Weight

Default 636kg
Maximum **500kg**
Minimum* **375kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **593.0 1.0118**
Non Spin OSN **583.9 1.0276**

Sails Limitations

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

Spinnaker configuration

Symmetric: **No**
Asymmetric: **Yes 186.02**
Flying H/S: **Yes 61.30**
Spin. Pole: **No**

Class Division Length

CDL = 9.526

Stability (Estimated)

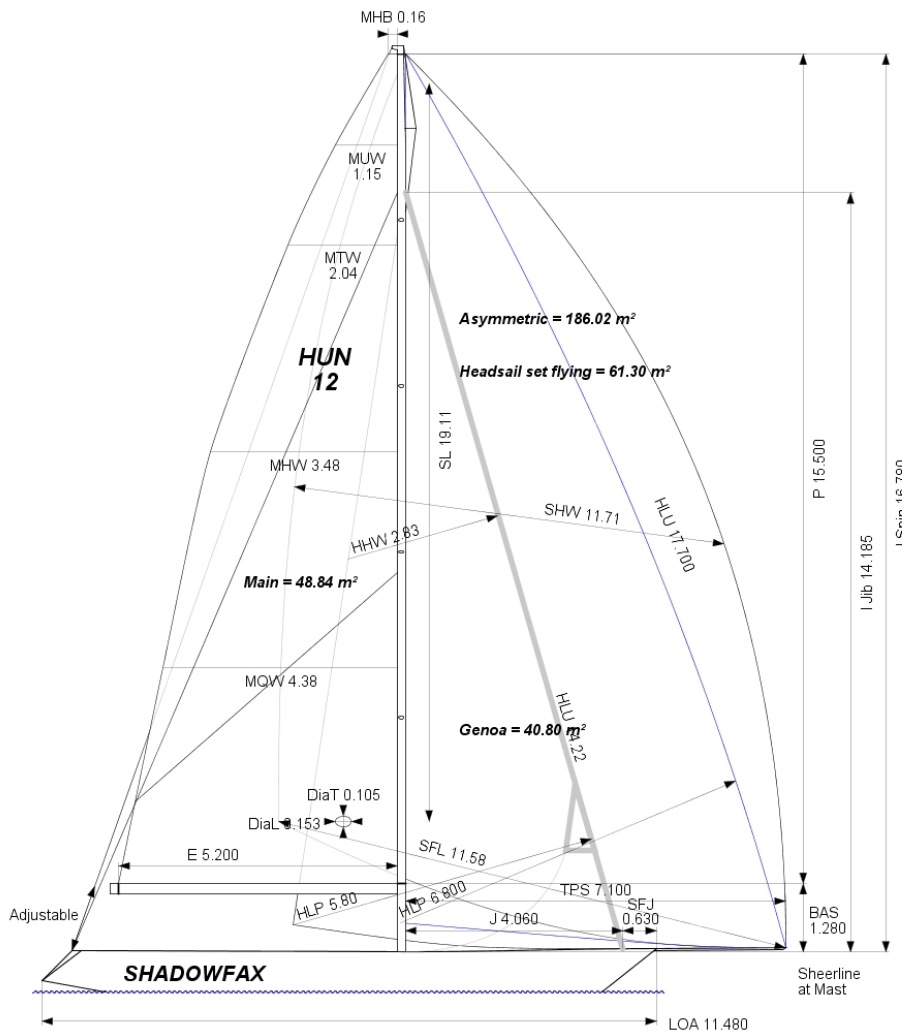
Limit Positive Stab.: **120.1°**
Stability Index: **121.6**

Owner

Bencsik László
Verecke út 28/30
1025 Budapest
HUNGARY

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

Signature



BOAT Name Shadowfax Sail Nr HUN-12		GPH 551.5	HULL Data File HUN12 LOA 11.480m Offset File BB12R.OFF MB 2.932m Displacement 3,600kg Draft 1.977m			
CLASS Class BB12 Racer Designer Boerresen Builder Boerresen Series 01/1987, CIN 1185 Age Date 01/1988 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.000% Fwd Accom. Yes Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex 0.00 Carbon Rudder No Light Stanchions No				
COMMENTS		IMSL 9.708m VCGD -0.350m Sink 15.76kg/mm RL 9.343m VCGM -0.246m WS 21.84m² LSM0 9.464m Displacement/Length ratio 4.2470				
PROPELLER Installation Strut PRD 0.380 Type Folding 2 blades PBW 0.100 PIPA 0.0038		Water Ballast 0 Trim Tab No BLR Index 0.0000				
SCORING OPTIONS		CENTERBOARD N/A				
Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	544.1			609.5		
Time on Time	1.1028			1.1075		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	598.2	501.6	450.5	767.4	616.9	541.4
Time on Time	1.1283	1.3456	1.4983	0.8796	1.0942	1.2468



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ORC Club Certificate Appendix

BOAT	
Name Shadowfax	Certificate Number 021/18
Sail Nr HUN-12	Issued On 26/06/2018

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	860.5	749.7	709.0	690.8	685.7	670.3	669.0
52°	561.2	510.0	494.0	486.5	481.9	478.1	470.9
60°	528.7	493.4	479.3	471.2	465.8	462.8	450.9
75°	502.7	476.1	459.5	447.2	439.0	433.3	423.2
90°	496.2	464.2	444.0	428.9	415.2	406.1	394.9
110°	526.7	480.0	447.0	414.6	395.8	381.2	355.7
120°	534.4	473.4	447.4	418.5	391.5	370.4	337.9
135°	592.2	487.9	444.8	407.4	379.9	357.5	313.0
150°	702.1	561.9	488.9	445.8	410.8	376.8	294.0
Run VMG	810.7	648.8	566.7	515.2	474.4	435.1	339.5
Selected Courses							
Windward / Leeward	835.6	699.3	637.9	603.0	580.0	552.7	504.3
Circular Random	726.3	601.9	538.0	501.1	476.7	458.1	427.7
Coastal / Long Distance	833.1	659.1	578.9	527.8	494.3	461.6	406.5
Non Spinnaker	801.9	654.7	576.8	531.4	502.6	482.5	454.6

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	43.1°	40.7°	39.2°	39.0°	39.2°	38.3°	39.0°
Beat VMG	4.18	4.80	5.08	5.21	5.25	5.37	5.38
52°	6.41	7.06	7.29	7.40	7.47	7.53	7.64
60°	6.81	7.30	7.51	7.64	7.73	7.78	7.98
75°	7.16	7.56	7.83	8.05	8.20	8.31	8.51
90°	7.26	7.75	8.11	8.39	8.67	8.87	9.12
110°	6.84	7.50	8.05	8.68	9.10	9.44	10.12
120°	6.74	7.60	8.05	8.60	9.20	9.72	10.65
135°	6.08	7.38	8.09	8.84	9.48	10.07	11.50
150°	5.13	6.41	7.36	8.08	8.76	9.55	12.24
Run VMG	4.44	5.55	6.35	6.99	7.59	8.27	10.60
Gybe Angles	143.4°	146.3°	151.0°	150.9°	148.2°	146.5°	147.7°