



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

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



Certificate

Number **036/16**
Issued On **10.7.2016.**
ORC Ref **HUN00070094**
VPP Ver. **2016 1.01**
Valid until **31.12.2016.**

Crew Weight

Declared **500kg**
Default* **636kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	594.1	1.0099
Non Spin OSN	584.2	1.0271
N/S Perf. Line	26.8	0.680

Sails Limitations

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

Spinnaker configuration

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

Class Division Length

CDL = **9.517**

Stability

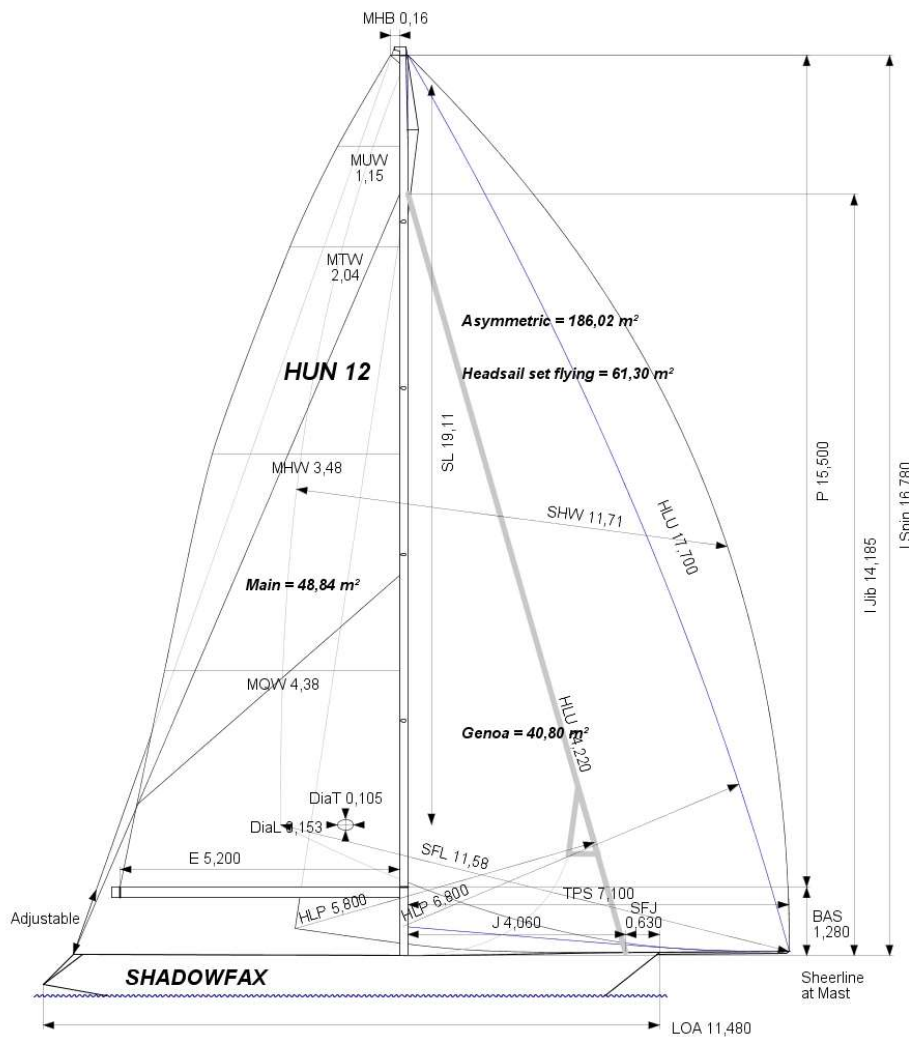
LPS (Estimated): **120.1°**
Stability Index: **121.6**
OSR Category: **N/A**

Owner

Bencsik László
Verecke út 28/30
1025 Budapest
HUNGARY

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

Signature



BOAT		GPH	HULL			
Name	Shadowfax	554.7	Data File	HUN12.dxt	LOA	11.480m
Sail Nr	HUN 12		Offset File	BB12R.OFF	MB	2.932m
			Displacement	3,600kg	Draft	1.977m
CLASS			IMS Division	Cruiser/Racer	Dynamic All.	0.000%
Class	BB12 Racer		Fwd Accom.	Yes	Construction	Cored
Designer	Boerresen		Fiber Rigging	No	Aramid Core	No
Builder	Boerresen		Crew Arm Ex	0.00	Carbon Rudder	No
Series	01.1987, CIN 1185				Light Stanchions	No
Age Date	01.1988		IMSL	9.708m	VCGD	-0.350m
Age Allowance	0.487%		RL	9.323m	VCGM	-0.246m
COMMENTS			WS	21.84m2	LSM0	9.464m
			Displacement/Length ratio	4.2470	Water Ballast	0
			Trim Tab	No	CENTERBOARD	
PROPELLER			N/A			
Installation	Strut	PRD	0.380			
Type	Folding 2 blades	PBW	0.100			
		PIPA	0.0038			
SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	545.9			613.3		
Time On Time	1.0991			1.1007		
Performance Line	PLT	PLD		PLT	PLD	
	0.801	66.0		1.189	358.8	
Triple Number	Low	Medium	High	Low	Medium	High
	1.1054	1.3463	1.5155	0.8514	1.0863	1.2545



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ORC Club Certificate Appendix

BOAT	
Name Shadowfax	Certificate Number 036/16
Sail Nr HUN 12	Issued On 10.7.2016.

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	924.0	776.7	720.7	691.6	677.7	662.9	657.7
52°	591.0	514.4	493.0	482.7	476.0	470.9	462.3
60°	544.1	493.5	476.3	466.0	458.5	454.5	440.6
75°	504.9	472.6	453.1	438.9	429.6	423.0	411.6
90°	496.0	459.7	436.2	420.1	405.9	396.7	385.9
110°	521.0	476.9	445.4	412.7	391.0	372.7	348.1
120°	533.8	472.1	446.6	418.0	389.5	369.8	331.9
135°	595.3	490.7	446.7	407.3	381.0	358.8	313.4
150°	707.5	566.0	492.1	449.5	415.9	377.2	295.8
Run VMG	817.0	653.6	570.2	519.7	480.2	435.5	341.5

Selected Courses							
Windward / Leeward	870.5	715.1	645.4	605.6	579.0	549.2	499.6
Circular Random	740.5	609.1	540.5	500.3	473.7	453.6	421.9
Ocean for PCS	916.1	718.6	608.6	540.3	493.0	456.6	399.7
Non Spinnaker	810.7	658.6	577.3	529.5	498.9	477.6	447.9

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	44.4°	42.7°	41.1°	39.7°	39.1°	38.4°	38.7°
Beat VMG	3.90	4.64	5.00	5.21	5.31	5.43	5.47
52°	6.09	7.00	7.30	7.46	7.56	7.64	7.79
60°	6.62	7.30	7.56	7.73	7.85	7.92	8.17
75°	7.13	7.62	7.95	8.20	8.38	8.51	8.75
90°	7.26	7.83	8.25	8.57	8.87	9.07	9.33
110°	6.91	7.55	8.08	8.72	9.21	9.66	10.34
120°	6.74	7.63	8.06	8.61	9.24	9.74	10.85
135°	6.05	7.34	8.06	8.84	9.45	10.03	11.49
150°	5.09	6.36	7.32	8.01	8.66	9.55	12.17
Run VMG	4.41	5.51	6.31	6.93	7.50	8.27	10.54
Gybe Angles	143.1°	146.0°	150.9°	151.0°	148.3°	145.0°	148.1°