



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

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



Certificate

Number **037/16**
Issued On **12.7.2016.**
ORC Ref **HUN00070099**
VPP Ver. **2016 1.01**
Valid until **31.12.2016.**

Crew Weight

Declared **450kg**
Default* **753kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin	GPH 670.5	0.8949
Non Spin	OSN 648.5	0.9252
N/S Perf. Line	-13.2	0.552

Sails Limitations

Headsails **6** Spinnakers **3**

Spinnaker configuration

Symmetric: **Yes 144.00**
Asymmetric: **Yes 130.27**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **9.379**

Stability

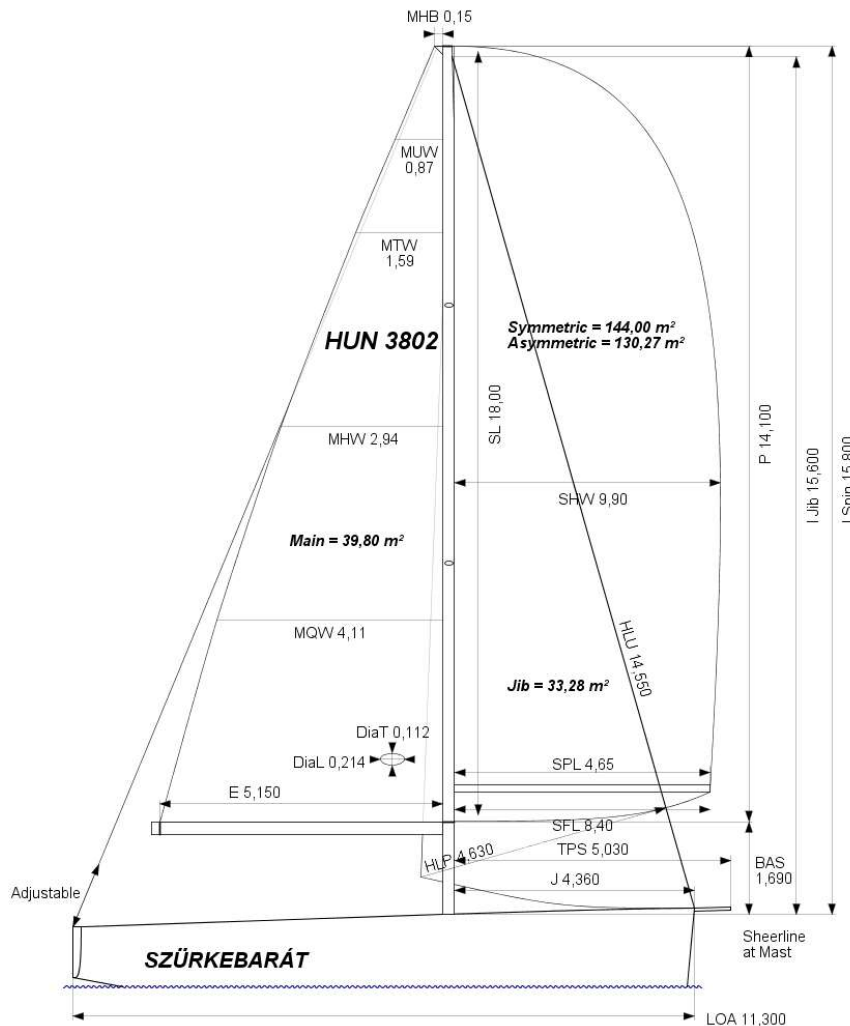
LPS (Estimated): **117.6°**
Stability Index: **121.3**
OSR Category: **N/A**

Owner

Zoltan Feind
Kertalja u. 16
8000 Székesfehérvár
HUNGARY

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

Signature



BOAT		GPH	HULL			
Name Szürkebarát Sail Nr HUN 3802		623.7	Data File HUN3802.dxt	LOA 11.300m		
			Offset File CLDEH38-	MB 3.758m		
			Displacement 7,545kg	Draft 2.014m		
CLASS			IMS Division Cruiser/Racer	Dynamic All. 0.263%		
Class Dehler 38CS			Fwd Accom. Yes	Construction Cored		
Designer Judel/Wrolijk			Fiber Rigging No	Aramid Core No		
Builder Hanse			Crew Arm Ex	Carbon Rudder No		
Series 01.2013				Light Stanchions No		
Age Date 06.2013			IMSL 10.693m	VCGD 0.172m	Sink 23.41kg/mm	
Age Allowance 0.098%			RL 8.064m	VCGM 0.074m	WS 30.41m2	
COMMENTS			LSM0 10.654m	Displacement/Length ratio 6.2391		
			Water Ballast 0 Trim Tab No			
PROPELLER			CENTERBOARD			
Installation Strut	PRD 0.435		N/A			
Type Folding 2 blades	PBW 0.135					
	PIPA 0.0040					
SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	604.5			676.5		
Time On Time	0.9926			0.9978		
Performance Line	PLT	PLD		PLT	PLD	
	0.644	19.4		0.754	141.8	
Triple Number	Low	Medium	High	Low	Medium	High
	0.9239	1.2304	1.4055	0.7072	0.9873	1.1719



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ORC Club Certificate Appendix

BOAT	
Name	Szürkebarát
Certificate Number	037/16
Sail Nr	HUN 3802
Issued On	12.7.2016.

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1150.0	941.5	825.2	743.6	700.6	681.6	670.1
52°	737.7	614.3	539.7	498.1	479.4	472.2	467.4
60°	688.0	577.0	512.3	481.5	466.0	457.9	452.6
75°	648.5	546.0	493.6	469.6	454.1	441.5	427.3
90°	627.4	518.8	475.9	463.9	454.9	441.1	413.7
110°	617.3	509.7	467.4	446.2	431.1	420.4	402.5
120°	633.1	518.2	471.5	446.8	424.7	407.1	385.1
135°	704.7	563.5	491.0	461.3	439.1	416.1	371.7
150°	833.1	662.0	552.4	490.0	462.8	442.2	400.6
Run VMG	961.9	764.4	637.8	559.3	512.2	476.7	435.1
Selected Courses							
Windward / Leeward	1056.0	852.9	731.5	651.4	606.4	579.2	552.6
Circular Random	872.7	699.0	604.3	548.3	513.5	490.8	463.0
Ocean for PCS	1071.3	821.7	679.4	591.6	534.7	495.7	443.6
Non Spinnaker	957.0	759.0	648.7	582.1	540.0	512.7	481.0

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	44.8°	43.2°	42.8°	42.5°	41.1°	40.1°	40.2°
Beat VMG	3.13	3.82	4.36	4.84	5.14	5.28	5.37
52°	4.88	5.86	6.67	7.23	7.51	7.62	7.70
60°	5.23	6.24	7.03	7.48	7.73	7.86	7.95
75°	5.55	6.59	7.29	7.67	7.93	8.15	8.42
90°	5.74	6.94	7.57	7.76	7.91	8.16	8.70
110°	5.83	7.06	7.70	8.07	8.35	8.56	8.94
120°	5.69	6.95	7.63	8.06	8.48	8.84	9.35
135°	5.11	6.39	7.33	7.80	8.20	8.65	9.69
150°	4.32	5.44	6.52	7.35	7.78	8.14	8.99
Run VMG	3.74	4.71	5.64	6.44	7.03	7.55	8.27
Gybe Angles	145.2°	149.4°	147.5°	155.7°	170.0°	180.0°	180.0°