



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

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



Certificate

Number **006/16**
Issued On **13.4.2016**.
ORC Ref **HUN00062405**
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: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **9.379**

Stability

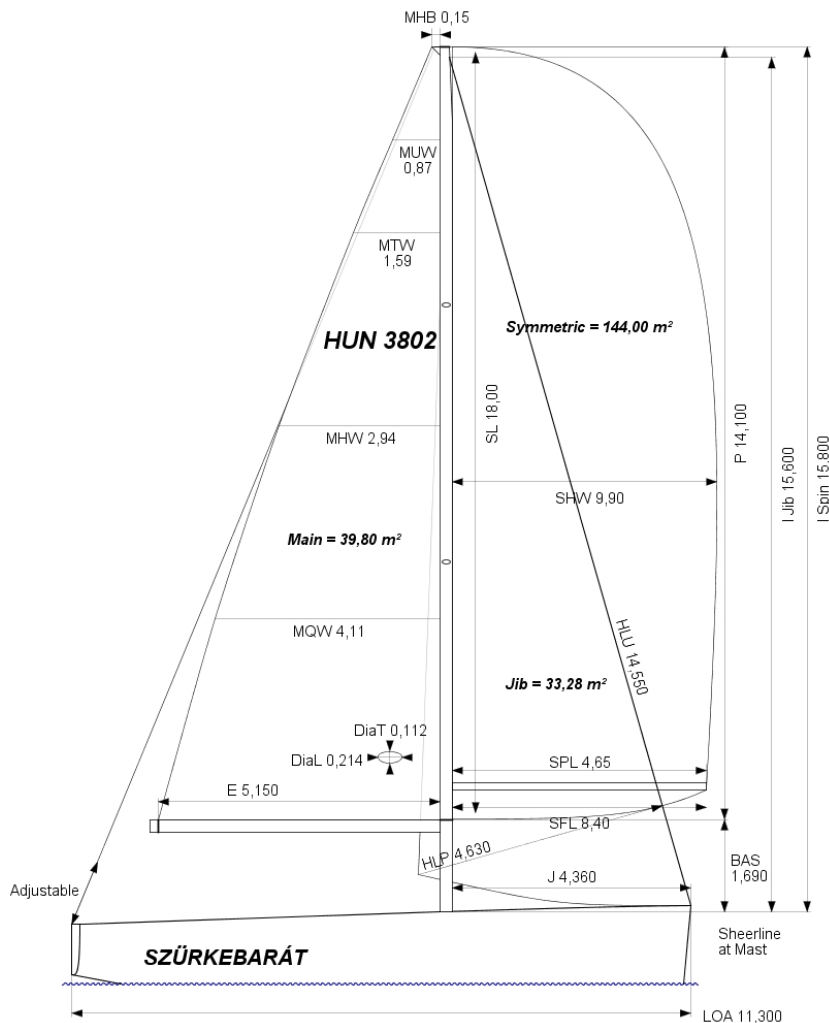
LPS (Estimated): **117.6°**
Stability Index: **121.3**
OSR Category: **N/A**

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		624.5	Data File	HUN3802.dxt
Sail Nr	HUN 3802			Offset File	CLDEH38-
				Displacement	7,545kg
				LOA	11.300m
				MB	3.758m
				Draft	2.014m
CLASS				IMS Division	Cruiser/Racer
Class	Dehler 38CS			Dynamic All.	0.263%
Designer	Judel/Wrolijk			Fwd Accom.	Yes
Builder	Hanse			Construction	Cored
Series	01.2013			Fiber Rigging	No
Age Date	06.2013			Aramid Core	No
Age Allowance	0.098%			Carbon Rudder	No
				Light Stanchions	No
		IMSL	10.693m	VCGD	0.172m
		Sink	23.41kg/mm		
		RL	8.064m	VCGM	0.074m
		WS	30.41m²		
		LSM0	10.654m	Displacement/Length ratio	6.2391
COMMENTS				Water Ballast	0
				Trim Tab	No
PROPELLER				CENTERBOARD	
Installation	Strut	PRD	0.435		
Type	Folding 2 blades	PBW	0.135		
		PIPA	0.0040		
SCORING OPTIONS					
		OFFSHORE		INSHORE	
		COASTAL / LONG DISTANCE		WINDWARD / LEEWARD	
Time On Distance		605.0		676.5	
Time On Time		0.9917		0.9978	
Performance Line		PLT	0.645	PLD	20.5
		PLT	0.754	PLD	141.8
		Low	Medium	High	
Triple Number		0.9227	1.2288	1.4035	0.7072
					0.9873
					1.1719



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2016

ORC Club Certificate Appendix

BOAT

Name **Szürkebarát** Certificate Number **006/16**
 Sail Nr **HUN 3802** Issued On **13.4.2016.**

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°	637.2	524.6	483.6	470.0	455.2	441.1	413.7
110°	619.3	509.8	467.4	447.6	436.2	425.8	408.0
120°	633.1	518.2	471.5	446.8	424.7	411.2	390.9
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	873.9	700.0	605.1	549.1	514.2	491.5	463.8
Ocean for PCS	1071.7	822.1	679.8	592.2	535.5	496.7	445.0
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°	5.65	6.86	7.44	7.66	7.91	8.16	8.70
110°	5.81	7.06	7.70	8.04	8.25	8.46	8.82
120°	5.69	6.95	7.63	8.06	8.48	8.75	9.21
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°