



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 **015/19**
Issued On **30/05/2019**
ORC Ref **HUN10025414**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight

Default 683kg
Maximum **683kg**
Minimum* **512kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	715.6	0.8385
Double H.OSN	690.1	0.8695
Non Spin GPH	711.3	0.8435
Non Spin OSN	685.5	0.8753

Sails Limitations

Headsails **5** Spinnakers **0**
Dacron Sails

Spinnaker configuration

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

Class Division Length

CDL = **8.399**

Stability (Estimated)

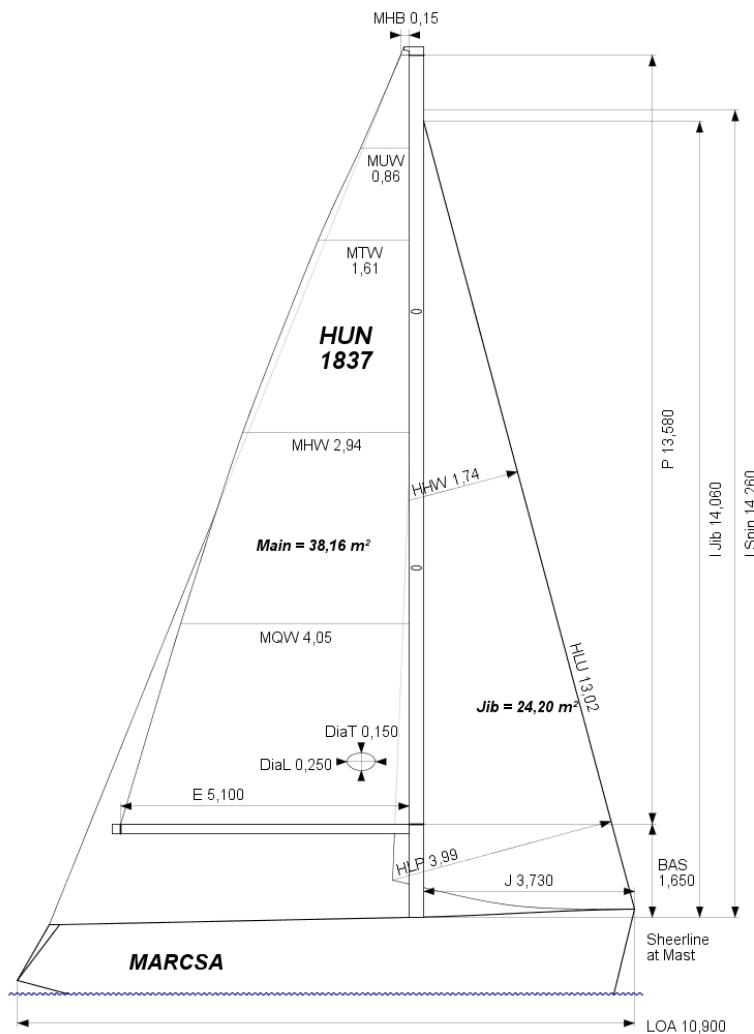
Limit Positive Stab.: **118.4°**
Stability Index: **121.7**

Owner

Pankotai Csaba

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

Signature



BOAT		GPH		HULL		
Name	MARCSA	711.3	Data File	HUN1837	LOA	10.900m
Sail Nr	HUN-1837		Offset File	BAVARIACR36.of	MB	3.664m
CLASS		DISPLACEMENT		DRAFT		
Class	BAVARIA CR 37	Displacement	7 100kg	Draft	1.908m	
Designer	FARR	IMS Division		Cruiser/Racer	Dynamic All.	0.373%
Builder	BAVARIA	Fwd Accom.	Yes	Construction	Cored	
Series	08/2007	Fiber Rigging	No	Aramid Core	No	
Age Date	01/2018	Crew Arm Ex		Carbon Rudder	No	
Age Allowance	0.390%			Light Stanchions	No	
COMMENTS		IMSL		9.942m	VCGD	0.050m
		RL		6.856m	VCGM	0.093m
		WS				29.42m²
		LSM0		9.949m Displacement/Length ratio 7.2097		
PROPELLER		Water Ballast		0	Trim Tab	No
Installation	Strut	PRD	0.400	BLR Index 0.0000		
Type	Folding 3 blades	PIPA	0.0006	CENTERBOARD		
				N/A		
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	685.5			763.3		
Time on Time	0.8753			0.8843		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	858.6	620.9	526.8	1119.0	775.8	631.6
Time on Time	0.7862	1.0871	1.2813	0.6032	0.8701	1.0687

2019

ORC Club Certificate Appendix

BOAT	
Name MARCSA	Certificate Number 015/19
Sail Nr HUN-1837	Issued On 30/05/2019

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1239.7	1013.5	891.0	806.5	748.5	722.9	725.0
52°	790.8	658.6	583.8	534.9	509.0	496.8	492.5
60°	738.1	619.9	551.1	514.0	494.3	483.0	475.7
75°	701.7	590.4	528.0	498.8	482.1	469.4	451.8
90°	708.4	594.1	526.4	495.8	478.1	462.3	434.7
110°	773.0	632.5	548.9	504.9	482.5	466.1	435.3
120°	825.9	670.1	578.1	520.4	491.3	473.3	442.1
135°	953.5	749.2	637.9	562.7	515.2	489.7	457.3
150°	1113.9	852.7	709.2	618.9	553.4	511.7	471.5
Run VMG	1265.7	957.2	782.3	673.1	597.0	540.3	483.3
Selected Courses							
Windward / Leeward	1252.7	985.3	836.6	739.8	672.8	631.6	604.1
Circular Random	1018.5	806.6	688.1	616.0	570.4	541.1	509.8
Coastal / Long Distance	1254.0	925.1	750.3	640.5	577.0	536.0	484.4
Non Spinnaker	1018.5	806.6	688.1	616.0	570.4	541.1	509.8

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	45.7°	44.0°	42.9°	42.5°	41.6°	40.8°	41.3°
Beat VMG	2.90	3.55	4.04	4.46	4.81	4.98	4.97
52°	4.55	5.47	6.17	6.73	7.07	7.25	7.31
60°	4.88	5.81	6.53	7.00	7.28	7.45	7.57
75°	5.13	6.10	6.82	7.22	7.47	7.67	7.97
90°	5.08	6.06	6.84	7.26	7.53	7.79	8.28
110°	4.66	5.69	6.56	7.13	7.46	7.72	8.27
120°	4.36	5.37	6.23	6.92	7.33	7.61	8.14
135°	3.78	4.81	5.64	6.40	6.99	7.35	7.87
150°	3.23	4.22	5.08	5.82	6.51	7.04	7.63
Run VMG	2.84	3.76	4.60	5.35	6.03	6.66	7.45
Gybe Angles	173.2°	175.5°	179.0°	179.6°	179.6°	179.7°	180.0°