

BOAT Name I'm Free Sail Nr HUN-794	GPH 623.9	HULL Length Overall 7.509m Maximum Beam 2.490m Displacement 821kg Draft 1.522m IMS Reg. Division Sportboat Dynamic Allowance 0.000% Fwd Accommodation No Hull Construction Cored Carbon Rudder Yes Crew Arm Extension 0.50
GENERAL Class MELGES 24 OD Designer REICHEL/PUGH Builder ROWEN Series 12/1992 Age 11/1999 Age Allowance 0.487% Offset File melg24.OD - 01/02/2018 14:20:40 Measurement by ONE DESIGN - 19/03/1996		IMSL 7.249m VCGD 0.050m Sink 8.71kg/mm RL 7.864m VCGM 0.030m WS 10.47m² LSM0 6.753m Displacement/Length ratio 2.6660



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2018
ORC International
One Design Certificate

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



SCORING OPTIONS						
Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	605.3			690.1		
Time on Time	0.9912			0.9781		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	716.8	556.2	471.5	921.3	696.6	591.2
Time on Time	0.9417	1.2136	1.4315	0.7327	0.9690	1.1417

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1071.4	877.0	782.0	753.0	744.6	742.0	735.6
52°	700.1	595.2	554.8	534.5	525.1	520.5	505.6
60°	660.8	578.2	536.8	507.0	495.2	488.9	470.9
75°	633.0	565.9	519.8	472.5	449.9	438.9	422.3
90°	624.5	546.4	510.7	469.2	420.0	394.9	374.3
110°	614.5	535.4	469.8	434.1	404.1	378.5	322.8
120°	629.5	545.2	478.9	416.5	382.1	356.2	300.8
135°	707.3	580.5	518.0	456.9	397.2	345.7	259.0
150°	839.1	664.7	577.8	522.9	466.0	412.3	298.3
Run VMG	968.9	767.5	667.4	603.8	538.1	476.1	344.4

Certificate
Number **010/18**
ORC Ref **HUN10014413**
Issued On **27/05/2018**
VPP Ver. **2018 1.00**
Valid until **31/12/2018**

Crew Weight
Default **393kg**
Maximum **375kg**
Minimum* **281kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	647.6	0.9265
Double H.OSN	634.7	0.9453
Non Spin GPH	672.0	0.8929
Non Spin OSN	650.7	0.9220

Selected Courses							
Windward / Leeward	1020.1	822.3	724.7	678.4	641.3	609.0	540.0
Circular Random	861.2	696.6	606.7	551.3	512.9	483.0	434.0
Coastal / Long Distance	1015.0	774.5	654.9	580.3	529.3	486.1	405.6
Non Spinnaker	941.4	754.3	651.8	589.7	548.6	518.5	472.5

Sails Limitations

Headsails	Spinnakers
5	3

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	43.7°	41.5°	38.8°	37.2°	36.9°	36.9°	37.3°
Beat VMG	3.36	4.10	4.60	4.78	4.83	4.85	4.89
52°	5.14	6.05	6.49	6.74	6.86	6.92	7.12
60°	5.45	6.23	6.71	7.10	7.27	7.36	7.64
75°	5.69	6.36	6.93	7.62	8.00	8.20	8.52
90°	5.76	6.59	7.05	7.67	8.57	9.12	9.62
110°	5.86	6.72	7.66	8.29	8.91	9.51	11.15
120°	5.72	6.60	7.52	8.64	9.42	10.11	11.97
135°	5.09	6.20	6.95	7.88	9.06	10.41	13.90
150°	4.29	5.42	6.23	6.88	7.72	8.73	12.07
Run VMG	3.72	4.69	5.39	5.96	6.69	7.56	10.45
Gybe Angles	143.5°	147.3°	150.5°	148.3°	144.7°	144.5°	139.9°

Class Division Length
CDL = **7.558**

Storm Sails Areas

Heavy Weather Jib	10.03
Storm Jib (JL=5.60)	3.72
Storm Trysail	5.86

Owner
Gyula Szentirmai
HUNGARY

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

Signature

BOAT	
Name I'm Free File HUN794	Sail Nr HUN-794 Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 1
Inner Stay None Fitted	Runners 0
Carbon Mast Yes	Jumper Struts None
Taper Hollows No	Jib Furler No
Fiber Rigging No	Main Furler No
Lenticular Rigging No	Without Backstay No
Articulated Bowsprit No	
P 8.818	E 3.800
IG 8.620	J 2.506
ISP 9.777	SFJ 0.200
BAS 1.000	SPL
FSP 0.000	TPS 4.050
MDT1 0.076	MW 0.114
MDL1 0.120	GO 0.114
MDT2 0.062	BD 0.103
MDL2 0.075	MWT 28.00
TL 1.578	MCG 3.150

INCLINING TEST AND FREEBOARDS	
Inclining Test Enter VCG directly	
Flotation date 27/01/2016	SG 1.0250
VCGDe 0.050	
FFM 0.876	FF 0.876 SFFP 0.130
FAM 0.587	FA 0.587 SAFF 7.370
LCF from stem on CL / on sheer 4.188 / 4.325	
Maximum beam station from stem 4.470	
RM Measured 25.3kg-m	
RM Default 27.0kg-m	
Limit of positive stability / Stab.Index 103.2° / 94.7	
Freeboard at mast at 2.706 0.799	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

COMMENTS	
LIFELINE TENSION ACC CLASSRULE	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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IMS Measurement Certificate

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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.175	0.93	1.68	2.70	3.33	21.38	22.33	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL	Area	Formula		
	11.59	11.08	11.34	5.86	6.30	56.18	AS · (SFL + 4·SHW) / 6		

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.05	0.40	0.76	1.42	2.09	2.78	8.56	12.14					CLASS RULES

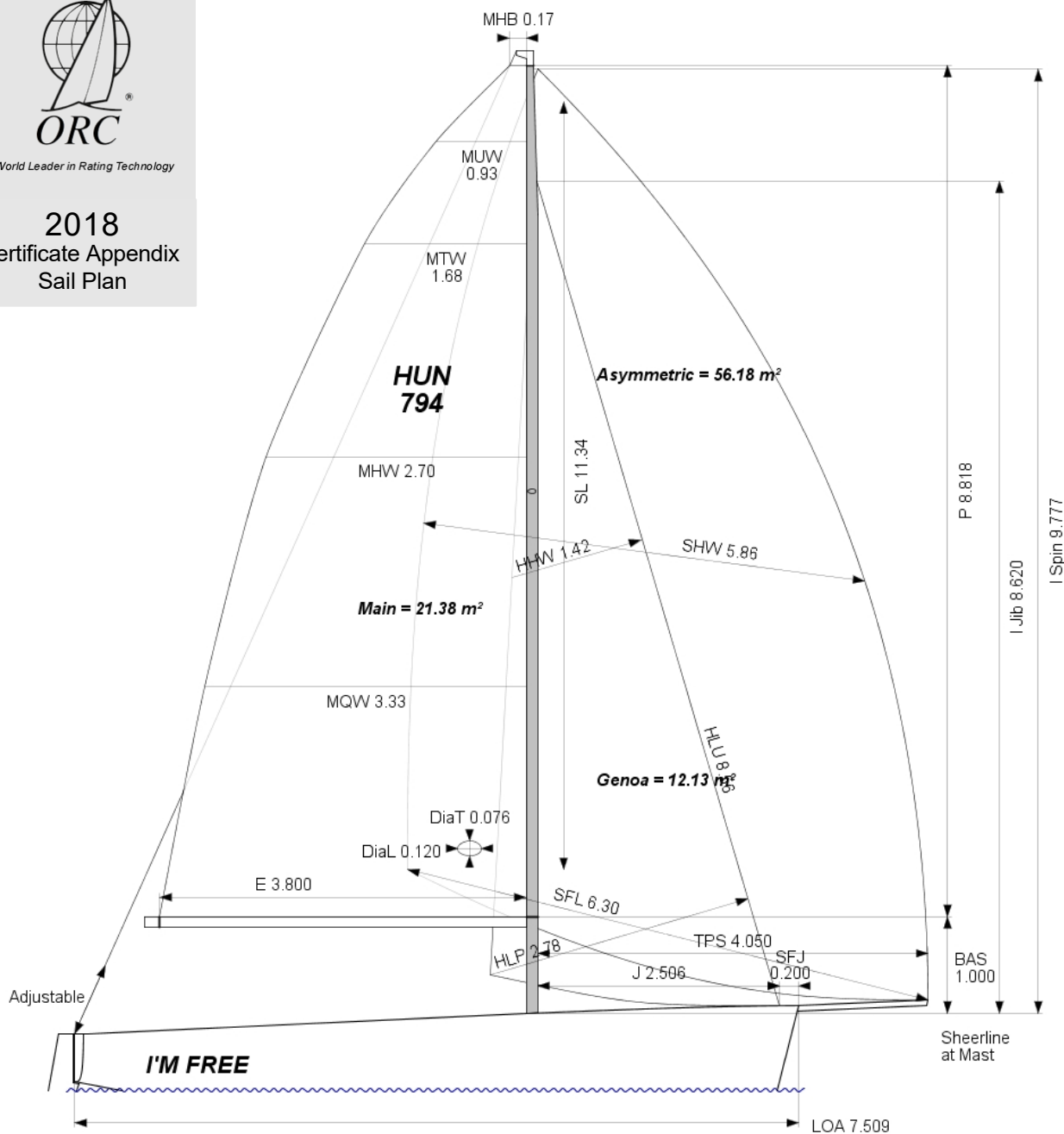
MEASUREMENT INVENTORY				
Measurer Date Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	MIN 12kg	OUTBOARD	
Id	Item	Weight Description		

MEASUREMENT INVENTORY				
Id	Item	Weight	Distance	VCG Description



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M	0.175	0.93	1.68	2.70	3.33	21.38	OD				CLASS RULES &

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
H	0.05	0.40	0.76	1.42	2.09	2.78	8.56	111%	12.14			OD				CLASS RULES

SYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
A	11.59	11.08	11.34	5.86	6.30	56.18	asym	OD				CLASS RULES & MEAS