



ORC

Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office
Hellenic Sailing Federation
Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας



Certificate

Number **01292**
Issued On **06/08/2020**
ORC Ref **03420000030**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default 490kg
Maximum **210kg**
Minimum* **125kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **864.2 0.6943**
Non Spin OSN **831.6 0.7215**

Sails Limitations

Headsails **1** Spinnakers **0**
Woven Polyester

Spinnaker configuration

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

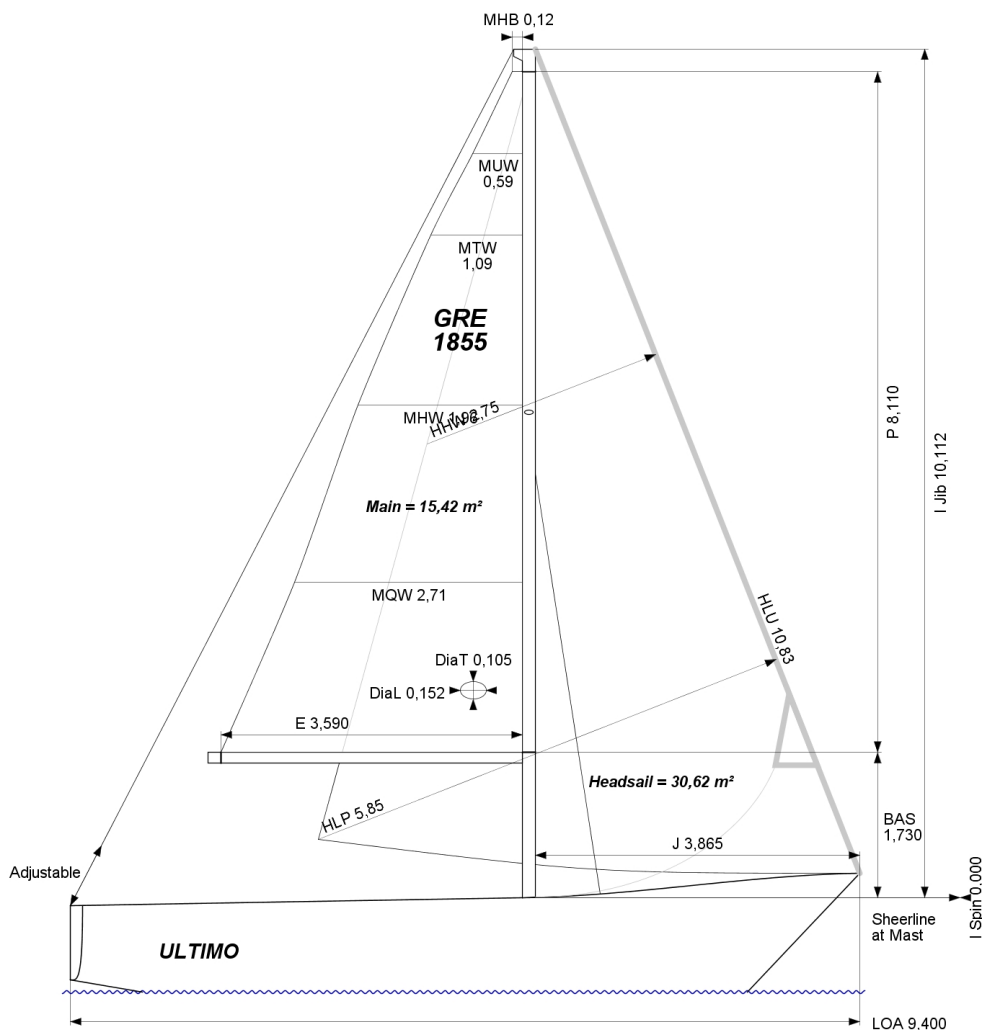
Class Division Length

CDL = 6.063

Stability (Estimated)

Limit Positive Stab.: **119.1°**
Stability Index: **121.5**

Owner



BOAT Name ULTIMO Sail Nr GRE-1855	GPH 864.2	HULL Data File GR1855 LOA 9.400m Offset File hr94CL.off MB 3.250m Displacement 5,200kg Draft 1.464m
CLASS Class HALLBERG RASSY 94 Designer Rassy/Enderlein Builder Hallberg-Rassy Series 01/1981 Age Date Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.721% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS Builder's displacement.		IMSL 7.930m VCGD -0.066m Sink 15.01kg/mm RL 4.195m VCGM 0.055m WS 23.18m² LSM0 7.884m Displacement/Length ratio 10.6112 Water Ballast 0 Trim Tab No BLR Index 0.0000
PROPELLER Installation Shaft non exposed PRD 0.414 Type Solid 3 blades PIPA 0.0103		CENTERBOARD NA

SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Time on Distance	831.6			940.1	
Time on Time	0.7215			0.7180		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	1040.7	754.2	643.9	1355.4	951.5	792.7
Time on Time	0.6486	0.8950	1.0483	0.4980	0.7094	0.8515

BOAT	
Name ULTIMO	Sail Nr GRE-1855
File GR1855	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 01/01/2013		SG 1.0240	
FFM 1.399	FF 1.399	SFFP 0.526	
FAM 1.004	FA 1.004	SAFP 9.383	
LCF from stem on CL / on sheer		5.567 / 5.810	
Maximum beam station from stem		5.690	
RM Measured		75.1kg-m	
RM Default		73.0kg-m	
Limit of positive stability / Stab.Index		119.1° / 121.5	
Freeboard at mast at 3.865		1.127	

RIG			
Forestay Tension Aft	Spreaders 1		
Inner Stay Fixed	Runners/Checkstays 0		
Carbon Mast No	Jib Furler Yes		
Fiber Rigging No	Main Furler No		
Non-Circular Rigging No			
Articulated Bowsprit No			
P 8.110	E 3.590	MDT1 0.105	MW
IG 10.112	J 3.865	MDL1 0.152	GO
ISP	SFJ	MDT2	BD
BAS 1.730	SPL	MDL2	MWT
FSD -3.000	TPS	TL -3.000	MCG




2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft non exposed	PRD 0.414		
Type Solid 3 blades	PBW		
Twin Screw No	PIPA 0.0103		
PSA	PHD	ESL	
PSD	PHL		

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COMMENTS	
Builder's displacement.	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.12	0.59	1.09	1.96	2.71	15.43		10/05/2018		Dacron						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	OvrIp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.05	0.65	1.30	2.75	4.28	5.85		151%	30.62		No		10/05/2018		Dacron	
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2020

ORC Club Certificate Appendix

BOAT	
Name	ULTIMO
Sail Nr	GRE-1855
Certificate Number	01292
Issued On	06/08/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1566.6	1269.6	1120.1	1030.9	978.9	953.0	951.4
52°	984.9	813.7	725.4	664.9	625.7	608.1	602.0
60°	909.3	763.3	680.9	623.0	591.3	576.4	568.9
75°	856.1	724.1	642.0	592.4	567.4	553.2	538.9
90°	862.5	724.1	638.2	586.3	558.3	540.3	520.4
110°	926.4	755.9	657.5	592.7	560.2	540.8	509.7
120°	989.2	792.6	683.7	608.9	568.7	546.5	514.0
135°	1121.3	876.3	746.3	660.1	599.2	565.8	529.5
150°	1304.5	997.7	828.9	725.6	650.7	596.8	546.5
Run VMG	1471.6	1114.1	912.2	788.3	703.0	637.1	565.2
Selected Courses							
Windward / Leeward	1519.0	1191.9	1016.2	909.6	840.9	795.1	758.3
Circular Random	1236.1	978.9	835.9	749.5	695.3	660.8	624.5
Coastal / Long Distance	1514.3	1117.4	910.1	779.8	703.0	649.5	581.1
Non Spinnaker	1236.1	978.9	835.9	749.5	695.3	660.8	624.5

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	47.3°	45.8°	44.6°	44.3°	45.8°	46.5°	47.6°
Beat VMG	2.30	2.84	3.21	3.49	3.68	3.78	3.78
52°	3.66	4.42	4.96	5.41	5.75	5.92	5.98
60°	3.96	4.72	5.29	5.78	6.09	6.25	6.33
75°	4.21	4.97	5.61	6.08	6.34	6.51	6.68
90°	4.17	4.97	5.64	6.14	6.45	6.66	6.92
110°	3.89	4.76	5.48	6.07	6.43	6.66	7.06
120°	3.64	4.54	5.27	5.91	6.33	6.59	7.00
135°	3.21	4.11	4.82	5.45	6.01	6.36	6.80
150°	2.76	3.61	4.34	4.96	5.53	6.03	6.59
Run VMG	2.45	3.23	3.95	4.57	5.12	5.65	6.37
Gybe Angles	166.5°	167.0°	168.0°	169.0°	169.0°	169.5°	174.0°