



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 **00140**
Issued On **13/10/2020**
ORC Ref **03420000RSV**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	695kg
Maximum	674kg
Minimum*	506kg

*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

ToD	ToT
Non Spin GPH 749.7	0.8003
Non Spin OSN 720.8	0.8324

Sails Limitations

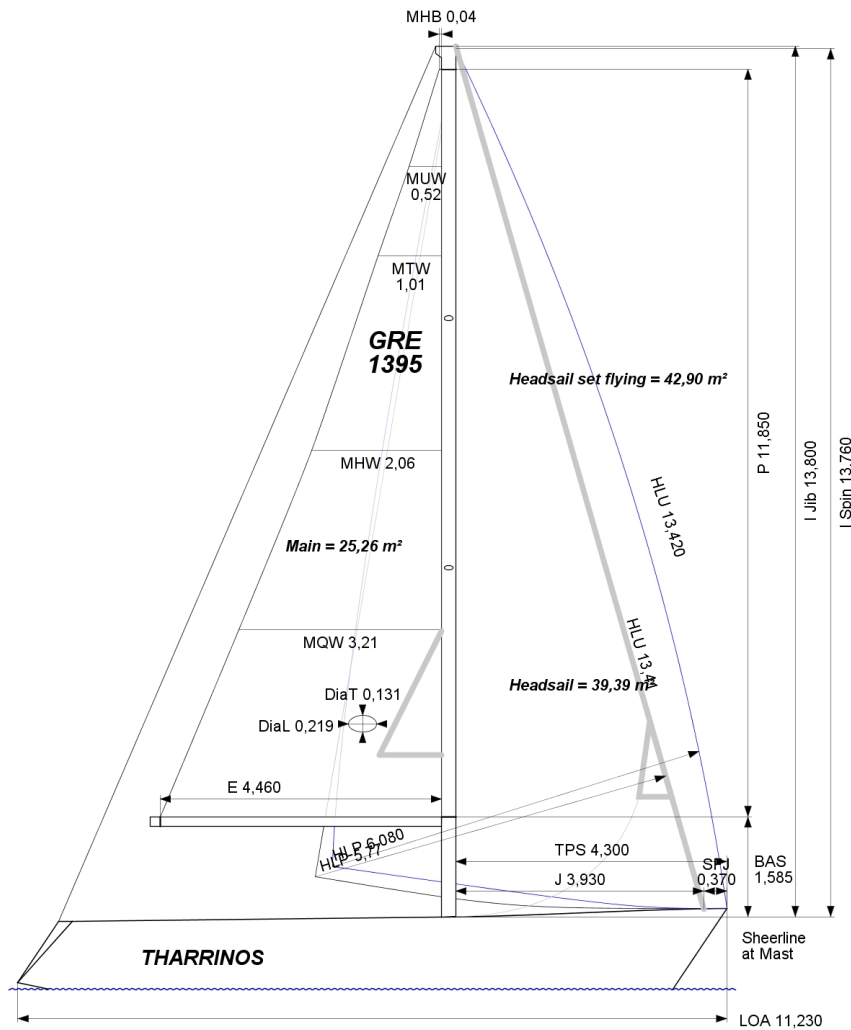
Headsails **1** Spinnakers **0**
Woven Polyester

Spinnaker configuration
Symmetric: **No**
Asymmetric: **No**
Flying H/S: **Yes** **42.90**
Spin. Pole: **Yes**

Class Division Length
CDL = 8.128

Stability (Estimated)
Limit Positive Stab.: **104.4°**
Stability Index: **105.3**

Owner



BOAT Name THARRINOS Sail Nr GRE-1395		GPH 735.0	HULL Data File GR1395 LOA 11.230m Offset File SODYS371.OFF MB 3.830m Displacement 6,709kg Draft 1.876m IMS Division Cruiser/Racer Dynamic All. 0.415% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No IMSL 9.993m VCGD 0.184m Sink 21.50kg/mm RL 6.262m VCGM 0.240m WS 29.33m² LSM0 10.064m Displacement/Length ratio 6.5818 Water Ballast 0 Trim Tab No BLR Index 0.0000																		
CLASS Class SUN ODYSSEY 37.1 Designer FAUROUX Builder JEANNEAU Series 01/1994 Age Date 01/1994 Age Allowance 0.487%			<table border="1"> <tr><td colspan="7">CENTERBOARD</td></tr> <tr><td colspan="7" style="text-align: center;">N/A</td></tr> </table>					CENTERBOARD							N/A						
CENTERBOARD																					
N/A																					
COMMENTS FBs increased by 6mm due to full fuel tank			PROPELLER Installation Shaft exposed PRD 0.440 Type Solid 3 blades PIPA 0.0241																		
SCORING OPTIONS																					
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD																	
Time on Distance	711.4			804.1																	
Time on Time	0.8434			0.8395																	
Triple Number	Low	Medium	High	Low	Medium	High															
Time on Distance	892.3	640.5	539.3	1181.5	820.2	658.0															
Time on Time	0.7565	1.0539	1.2516	0.5713	0.8230	1.0259															

BOAT			
Name	THARRINOS	Sail Nr	GRE-1395
File	GR1395	Data in	meters/kilograms
RIG			
Forestay Tension	Fixed	Spreaders	2
Inner Stay	None Fitted	Runners/Checkstays	0
Carbon Mast	No	Jib Furler	Yes
Fiber Rigging	No	Main Furler	Yes
Non-Circular Rigging	No		
Articulated Bowsprit	No		
P	11.850	E	4.460
IG	13.800	J	3.930
ISP	13.760	SFJ	0.370
BAS	1.585	SPL	4.350
FSD	0.036	TPS	4.300
MDT1	0.131	MW	
MDL1	0.219	GO	
MDT2		BD	
MDL2		MWT	
TL	0.000	MCG	

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date		16/06/2009	SG
FFM	1.226	FF	1.261
FAM	1.091	FA	1.079
SFFP	0.740	SAFP	10.370
LCF from stem on CL / on sheer		6.471 / 6.731	
Maximum beam station from stem		7.294	
RM Measured		146.3kg-m	
RM Default		144.0kg-m	
Limit of positive stability / Stab.Index		104.4° / 105.3	
Freeboard at mast at 4.300		1.147	



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2020
Measurements
Datasheet

MIZZEN RIG AND SAILS			
N/A			

PROPELLER			
Installation	Shaft exposed	PRD	0.440
Type	Solid 3 blades	PBW	
Twin Screw	No	PIPA	0.0241
PSA	PHL	ST3	ESL
PSD	ST1	ST4	
PHD	ST2	ST5	

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COMMENTS			
FBs increased by 6mm due to full fuel tank			

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	0.04	0.52	1.01	2.06	3.21	25.27				Unknown						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.06	0.93	1.70	3.30	4.76	6.08	13.42	155%	42.90		Yes				Unknow	
1						5.77	13.41	147%	39.39		No				Unknow	
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				

MEASUREMENT INVENTORY				
Measurer				
Date 16/06/2009				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
2	Anchor	14.0	9.50	
4	Anchor	16.0	1.00	
2	Chain	13.0	9.50	
4	Chain	103.0	1.00	
4	Tools	8.0	10.00	
Id	Item	Maker	Model	
1	Engine	YANMAR	4JH3E	
Id	Item	Weight	Description	

MEASUREMENT INVENTORY									
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description	
3	Tank	WATER	PLASTIC	150.0	9.00			EMPTY	
2	Tank	WATER	PLASTIC	150.0	3.50			EMPTY	
1	Tank	FUEL	INOX	150.0	9.00			FULL	
Id	Item	Weight	Distance	VCG Description					
4	Battery	13.0	6.00	55AH					
3	Battery	25.0	8.50	105AH					
2	Battery	25.0	8.50	105AH					
1	Battery	25.0	8.50	105AH					
1	Misc	20.0	1.00	WINDLASS					

2020

ORC Club Certificate Appendix

BOAT	
Name	THARRINOS
Sail Nr	GRE-1395
Certificate Number	00140
Issued On	13/10/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1345.9	1079.8	938.0	843.8	780.8	748.8	740.6
52°	843.2	686.6	601.9	547.1	519.7	508.6	501.9
60°	770.8	636.2	560.8	520.2	500.3	490.0	483.3
75°	716.9	597.9	533.7	504.1	487.7	475.6	460.5
90°	730.8	609.4	537.1	503.3	484.6	468.7	444.4
110°	803.6	646.6	554.7	506.3	482.6	464.4	428.9
120°	841.8	672.4	575.0	516.9	488.6	469.4	433.1
135°	949.4	742.1	628.8	553.3	509.5	486.0	451.5
150°	1125.5	866.3	724.9	640.9	574.4	526.5	480.1
Run VMG	1299.6	1000.3	837.0	719.2	636.3	573.8	501.3
Selected Courses							
Windward / Leeward	1322.8	1040.1	887.5	781.5	708.5	661.3	621.0
Circular Random	1057.9	835.3	710.7	634.7	586.1	554.4	518.3
Coastal / Long Distance	1320.4	971.3	784.8	663.0	594.5	548.3	490.2
Non Spinnaker	1088.1	855.3	724.3	644.2	592.9	559.6	522.5

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°	45.4°	44.6°	44.3°	42.4°	41.6°	41.4°
Beat VMG	2.67	3.33	3.84	4.27	4.61	4.81	4.86
52°	4.27	5.24	5.98	6.58	6.93	7.08	7.17
60°	4.67	5.66	6.42	6.92	7.20	7.35	7.45
75°	5.02	6.02	6.75	7.14	7.38	7.57	7.82
90°	4.93	5.91	6.70	7.15	7.43	7.68	8.10
110°	4.48	5.57	6.49	7.11	7.46	7.75	8.39
120°	4.28	5.35	6.26	6.96	7.37	7.67	8.31
135°	3.79	4.85	5.73	6.51	7.07	7.41	7.97
150°	3.20	4.16	4.97	5.62	6.27	6.84	7.50
Run VMG	2.77	3.60	4.30	5.01	5.66	6.27	7.18
Gybe Angles	144.0°	145.0°	145.5°	170.0°	172.0°	173.0°	178.0°