



2020
ORC Club
Certificate

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



Certificate
Number **00574**
Issued On **26/06/2020**
ORC Ref **03420000LIH**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	780kg
Maximum	780kg
Minimum*	585kg

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

Special Scoring

ToD	ToT
Non Spin GPH 691.1	0.8682
Non Spin OSN 668.1	0.8981

Sails Limitations

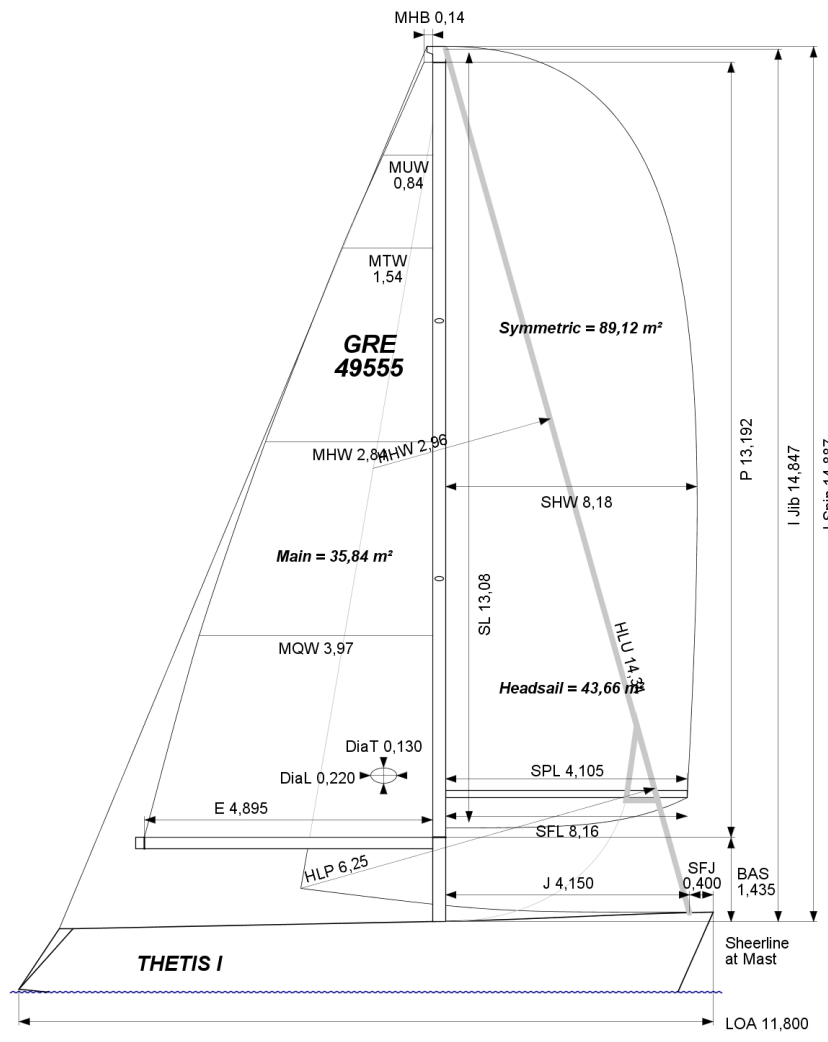
Headsails **1** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes** **89.12**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = **9.097**

Stability (Measured)
Limit Positive Stab.: **105.1°**
Stability Index: **107.0**

Owner



BOAT Name THETIS I Sail Nr GRE-49555		GPH 661.9	HULL Data File GR49555 LOA 11.800m Offset File GR0062.BOF MB 3.922m Displacement 7,494kg Draft 1.677m			
CLASS Class OCEANIS 400 Designer FINOT Builder BENETEAU Series 01/1993 Age Date 01/1993 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.382% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		IMSL 10.912m VCGD 0.335m Sink 23.84kg/mm RL 7.284m VCGM 0.227m WS 31.89m² LSMO 10.914m Displacement/Length ratio 5.7645		
COMMENTS ex "DELIGHT I"		Water Ballast 0 Trim Tab No BLR Index 0.0000				
PROPELLER Installation Shaft non exposed PRD 0.430 Type Solid 3 blades PBW 0.145 PIPA 0.0112		CENTERBOARD NA				
SCORING OPTIONS						
Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	640.4			723.2		
Time on Time	0.9369			0.9334		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	787.4	579.0	502.7	1033.4	731.7	614.0
Time on Time	0.8572	1.1658	1.3427	0.6532	0.9225	1.0994

BOAT	
Name THETIS I	Sail Nr GRE-49555
File GR49555	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 16/10/1993		SG 1.0270	
FFM 1.308	FF 1.329	SFFP 1.000	
FAM 1.040	FA 1.042	SAFP 10.880	
W1 16.0	PD1 81.7	WD 11.315	
W2 32.0	PD2 161.9	GSA 1.0	
W3 48.0	PD3 237.0	RSA 1.0	
W4 64.0	PD4 318.6	PLM 9000.0	
LCF from stem on CL / on sheer		6.688 / 6.960	
Maximum beam station from stem		7.270	
RM Measured		179.2kg-m	
RM Default		174.1kg-m	
Limit of positive stability / Stab.Index		105.1° / 107.0	
Freeboard at mast at 4.550		1.195	



ORC
Offshore Racing Congress
World leader in rating technology

2020
Measurements
Datasheet


RIG			
Forestay Tension Fixed	Spreaders 2		
Inner Stay None Fitted	Runners/Checkstays 0		
Carbon Mast No	Jib Furler Yes		
Fiber Rigging No	Main Furler No		
Non-Circular Rigging No			
Articulated Bowsprit No			
P 13.192	E 4.895	MDT1 0.130	MW 0.220
IG 14.847	J 4.150	MDL1 0.220	GO 0.260
ISP 14.887	SFJ 0.400	MDT2 0.130	BD 0.195
BAS 1.435	SPL 4.105	MDL2 0.220	MWT
FSD 0.040	TPS	TL 0.000	MCG

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft non exposed	PRD 0.430		
Type Solid 3 blades	PBW 0.145		
Twin Screw No	PIPA 0.0112		
PSA 15.700	PHD 0.055	ESL 0.180	
PSD 0.030	PHL 0.039		

Certificate

Number **00574**
ORC Ref **03420000LIH**
Issued On **26/06/2020**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**



COMMENTS	
ex "DELIGHT I"	

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	0.14	0.84	1.54	2.84	3.97	35.85		08/05/2010	UK HALSEY	Dacron						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.07	0.75	1.46	2.96	4.57	6.25	14.34	151%	43.66		No		08/05/2010	UK HALSEY	Unknow	MAYLAR
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3	13.08	13.08	13.08	8.18	8.16	89.12		29/06/2011	HORIZON	Nylon	BLUE, LIGHTBLUE					
1	11.35	11.35	11.35	6.48	6.30	60.95		06/07/2009	KAKITSIS	Nylon						
2	11.80	11.80	11.80	6.16	5.95	60.17		08/05/2010	SOBSTAD	Nylon	GREEN, WHITE, RED, YELLOW,					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY				
Measurer				
Date 16/10/1993				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
4	Anchor	22.5	1.20	GQR
2	Anchor	7.0	8.40	Danforth
4	Chain	100.0	1.20	
4	Toots	10.0	9.10	
Id	Item	Maker	Model	
1	Engine	YANMAR	48HP	
Id	Item	Weight	Description	

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank	Water	Fiberglass	280.0	3.00			0-0
2	Tank	Water	Fiberglass	280.0	9.10			0-0
3	Tank	Fuel	Inox	120.0	10.00			120-0
Id	Item	Weight	Distance	VCG Description				
1	Battery	25.0	7.30	1 x 125Ah				
2	Battery	50.0	8.30	2 x 125Ah				
1	Misc	30.0	11.00	Wind Generator				

2020

ORC Club Certificate Appendix

BOAT	
Name	THETIS I
Sail Nr	GRE-49555
Certificate Number	00574
Issued On	26/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1226.7	991.9	865.1	782.4	742.9	728.1	728.0
52°	771.0	633.4	558.2	514.0	494.7	487.9	485.5
60°	708.0	590.0	525.2	492.8	477.2	470.5	467.0
75°	664.4	557.8	502.8	477.5	462.5	451.7	441.0
90°	671.2	560.9	501.1	472.9	458.2	444.6	420.1
110°	688.7	559.2	492.6	463.3	442.8	423.8	398.7
120°	710.4	575.4	500.5	467.3	445.5	424.3	385.9
135°	788.5	629.6	537.6	486.7	461.0	440.3	398.3
150°	932.4	725.7	609.0	534.0	487.6	463.1	424.0
Run VMG	1076.7	838.0	702.7	612.8	550.0	502.7	453.7
Selected Courses							
Windward / Leeward	1151.7	914.9	783.9	697.6	646.5	615.4	590.9
Circular Random	937.3	745.8	640.5	577.9	539.1	514.5	486.8
Coastal / Long Distance	1144.2	854.5	697.1	598.0	546.4	511.0	457.8
Non Spinnaker	990.3	783.1	668.1	599.1	556.1	528.5	497.1

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	46.5°	45.0°	44.4°	43.9°	43.1°	42.8°	42.9°
Beat VMG	2.93	3.63	4.16	4.60	4.85	4.94	4.95
52°	4.67	5.68	6.45	7.00	7.28	7.38	7.41
60°	5.09	6.10	6.85	7.30	7.54	7.65	7.71
75°	5.42	6.45	7.16	7.54	7.78	7.97	8.16
90°	5.36	6.42	7.18	7.61	7.86	8.10	8.57
110°	5.23	6.44	7.31	7.77	8.13	8.50	9.03
120°	5.07	6.26	7.19	7.70	8.08	8.48	9.33
135°	4.57	5.72	6.70	7.40	7.81	8.18	9.04
150°	3.86	4.96	5.91	6.74	7.38	7.77	8.49
Run VMG	3.34	4.30	5.12	5.87	6.55	7.16	7.93
Gybe Angles	146.0°	149.0°	152.0°	154.0°	162.0°	180.0°	180.0°