



2020
ORC Club
Certificate

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



Certificate
Number **01069**
Issued On **23/06/2020**
ORC Ref **03420000L8J**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	702kg
Maximum	702kg
Minimum*	527kg

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

Special Scoring

ToD	ToT
Non Spin GPH 673.0	0.8915
Non Spin OSN 651.4	0.9211

Sails Limitations

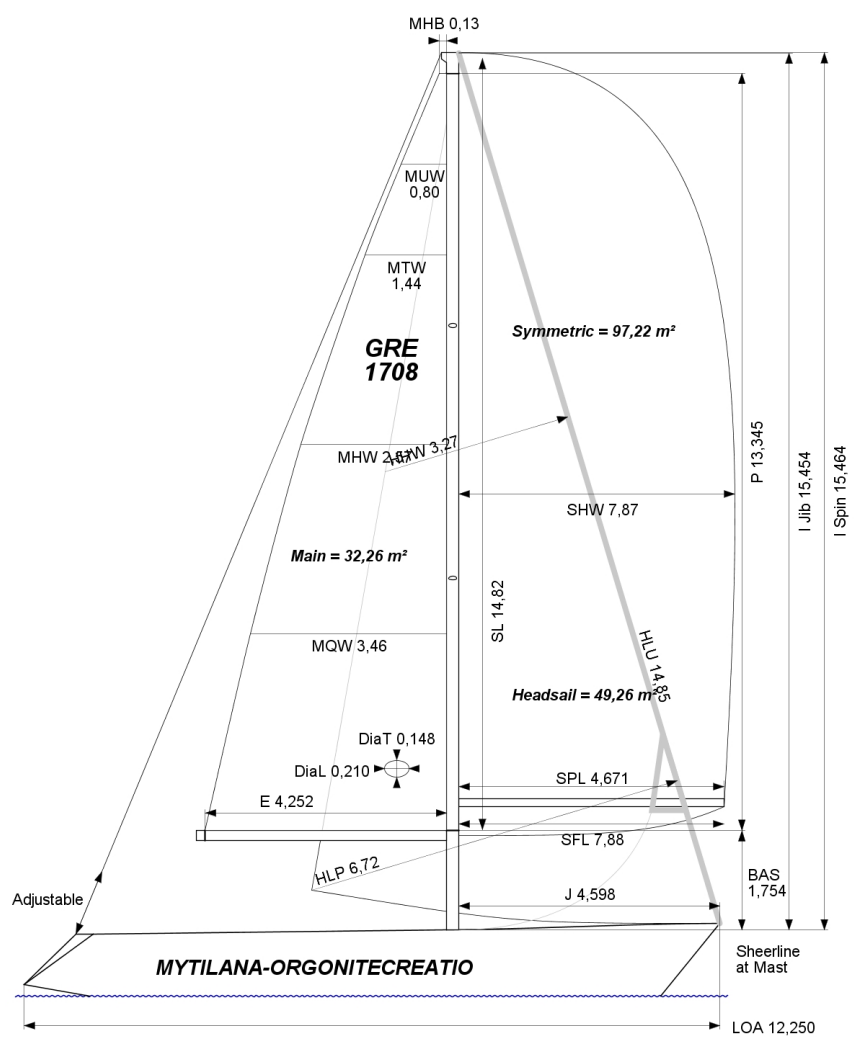
Headsails **1** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes** **97.22**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = **9.198**

Stability (Estimated)
Limit Positive Stab.: **113.7°**
Stability Index: **116.8**

Owner



BOAT Name MYTILANA- Sail Nr GRE-1708		GPH 643.7		HULL Data File GR1708 LOA 12.250m Offset File H011.BOF MB 3.908m Displacement 8,116kg Draft 1.994m		
CLASS Class SUN LEGENDE 41 Designer D. PETERSON Builder JEANNEAU Series 01/1985 Age Date 01/1987 Age Allowance 0.487%				IMS Division Cruiser/Racer Dynamic All. 0.432% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		
COMMENTS				IMSL 10.222m VCGD -0.072m Sink 21.92kg/mm RL 8.173m VCGM 0.080m WS 31.10m² LSM0 10.136m Displacement/Length ratio 7.7937		
PROPELLER Installation Shaft exposed PRD 0.482 Type Feathering 3 blades PBW 0.153 PIPA 0.0030				CENTERBOARD N/A		
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	623.4			696.2		
Time on Time	0.9624			0.9695		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	751.2	566.7	500.0	972.6	703.8	598.2
Time on Time	0.8986	1.1911	1.3499	0.6940	0.9591	1.1284

BOAT	
Name MYTILANA- File GR1708	Sail Nr GRE-1708 Data in meters/kilograms
RIG	
Forestay Tension Aft	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 13.345	E 4.252 MDT1 0.148 MW 0.209
IG 15.454	J 4.598 MDL1 0.210 GO 0.251
ISP 15.464	SFJ 0.000 MDT2 0.148 BD 0.178
BAS 1.754	SPL 4.671 MDL2 0.207 MWT
FSD 0.040	TPS TL 0.000 MCG

INCLINING TEST AND FREEBOARDS	
Inclining Test Club Estimated VCG	
Flotation date 16/03/2017	SG 1.0285
FFM 1.263	FF 1.270 SFFP 0.490
FAM 1.099	FA 1.093 SAFF 11.031
LCF from stem on CL / on sheer	6.506 / 6.785
Maximum beam station from stem	6.630
RM Measured	166.5kg-m
RM Default	161.7kg-m
Limit of positive stability / Stab.Index	113.7° / 116.8
Freeboard at mast at 4.598	1.163



ORC
Offshore Racing Congress
World leader in rating technology

2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Installation Shaft exposed	PRD 0.482
Type Feathering 3 blades	PBW 0.153
Twin Screw No	PIPA 0.0030
PSA 15.130	PHL 0.132 ST3 0.108 ESL 1.247
PSD 0.029	ST1 0.021 ST4 0.058
PHD 0.026	ST2 0.118 ST5 0.223

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (3)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3	0.13	0.80	1.44	2.57	3.46	32.26		18/06/2020	Sailloft	Dacron						
2	0.13	0.77	1.41	2.53	3.46	32.00		24/04/2019	APsails	Dyneema	woven polyester+					
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovr/tp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
4	0.07	0.83	1.62	3.27	4.97	6.72	14.85	146%	49.26		No		24/04/2019	Sailloft	Polyest	mylar
2	0.05	0.76	1.52	3.17	4.94	6.79	14.85	148%	48.61		No		24/04/2019	APsails	Dyneem	woven polyester+
3	0.09	0.57	1.10	2.24	3.51	4.83	14.67	105%	34.24		No		18/06/2020	OS3	Dacron	w/ spectra #3
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	14.87	14.76	14.82	7.87	7.88	97.19		22/05/2019	AP Sails	Nylon	0.7					
3	14.81	14.76	14.79	7.73	7.75	95.29		21/06/2019	Sailloft	Nylon	0.9					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY				
Measurer GRE-16				
Date 16/03/2017				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
Id	Item	Weight	Description	

MEASUREMENT INVENTORY									
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description	
4	Tank	FUEL		140.0			25.0		
Id	Item	Weight	Distance	VCG	Description				

2020

ORC Club Certificate Appendix

BOAT			
Name	MYTILANA-	Certificate Number	01069
Sail Nr	GRE-1708	Issued On	23/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1113.7	919.4	808.4	738.6	709.2	696.7	693.7
52°	719.9	605.9	537.6	506.6	493.3	487.9	484.9
60°	675.6	573.1	517.1	493.1	480.6	474.4	470.3
75°	645.3	548.1	503.1	482.1	468.7	458.7	447.5
90°	653.1	551.1	501.9	478.4	464.9	452.4	431.7
110°	675.2	552.9	494.5	468.8	450.1	434.0	415.3
120°	694.2	567.5	500.8	472.2	452.0	433.2	401.5
135°	764.5	618.9	531.6	489.1	466.0	446.7	409.3
150°	899.3	709.2	600.5	529.4	489.8	468.1	432.2
Run VMG	1038.5	818.9	692.9	606.1	547.0	503.3	459.3
Selected Courses							
Windward / Leeward	1076.1	869.1	750.7	672.4	628.1	600.0	576.5
Circular Random	897.4	720.2	623.8	567.2	532.5	510.5	485.5
Coastal / Long Distance	1072.3	815.3	673.0	584.5	540.5	509.3	462.8
Non Spinnaker	950.6	757.6	651.5	588.4	549.3	524.2	495.2

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	43.5°	42.0°	42.0°	41.3°	40.1°	39.6°	40.1°
Beat VMG	3.23	3.92	4.45	4.87	5.08	5.17	5.19
52°	5.00	5.94	6.70	7.11	7.30	7.38	7.42
60°	5.33	6.28	6.96	7.30	7.49	7.59	7.66
75°	5.58	6.57	7.16	7.47	7.68	7.85	8.04
90°	5.51	6.53	7.17	7.52	7.74	7.96	8.34
110°	5.33	6.51	7.28	7.68	8.00	8.29	8.67
120°	5.19	6.34	7.19	7.62	7.97	8.31	8.97
135°	4.71	5.82	6.77	7.36	7.72	8.06	8.80
150°	4.00	5.08	6.00	6.80	7.35	7.69	8.33
Run VMG	3.47	4.40	5.20	5.94	6.58	7.15	7.84
Gybe Angles	146.0°	150.0°	152.0°	154.0°	167.0°	180.0°	180.0°