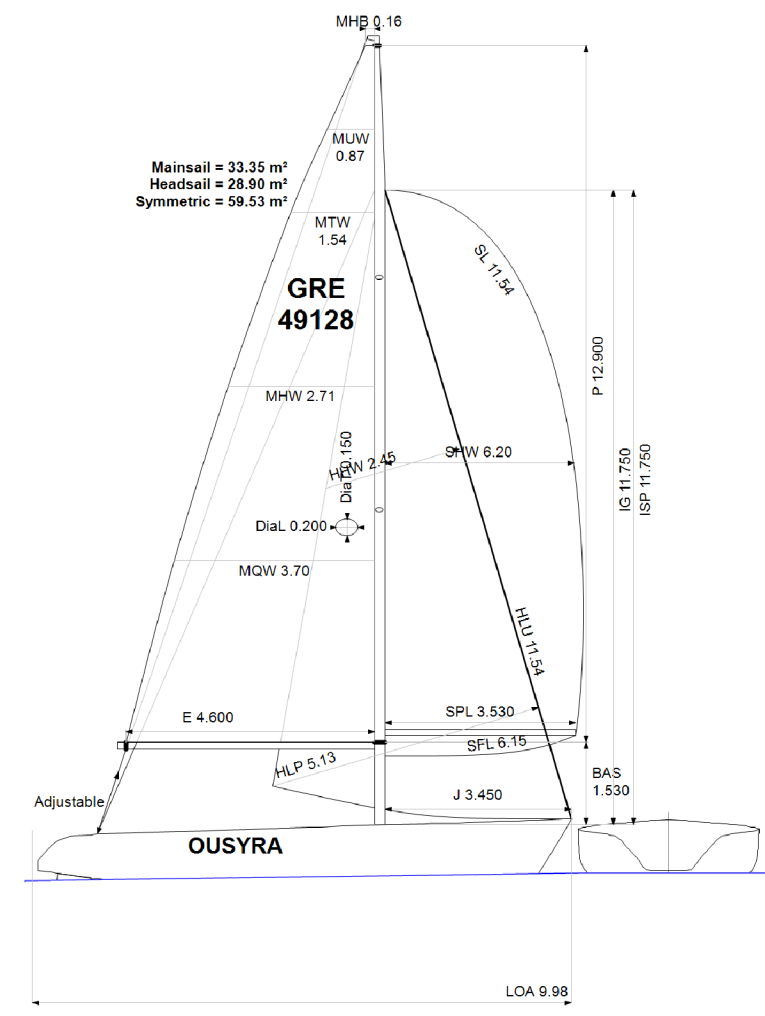




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APH ToD: **595.3** CDL: **8.221**
APH ToT: **1.0080** CertNo: 00943

BOAT	
Class	X-102
Designer	N.JEPPESSEN
Builder	X-YACHTS
Age date	06/1986
Series date	05/1981
Offset file	H099.BOF
Data file	GR49128
HULL	
Length Overall	9.979 m
Maximum Beam	3.346 m
Draft	1.947 m
Displacement	4,741 kg
DLR	9.1259
IMS Division	Cruiser/Racer
Dynamic Allowance	0.280%
Age Allowance	0.487%
PROPELLER	
Installation	Shaft exposed
Type	Feathering 2 blades
Diameter	0.360m
CREW	
Maximum weight	523 kg (declared)
Minimum weight	393 kg * when applied
Non Manual Power	No
Crew Arm Extension	
SAIL AREAS (m²)	
Mainsail	Measured 33.35 Rated 33.81
Headsail Luffed	28.90 28.90
Headsail Flying	
Symmetric	59.53 59.53
Asymmetric	
STORM SAIL AREAS (m²)	
Trysail	10.39
Storm Jib	6.91
Heavy Weather Jib	18.64
SAIL LIMITS	
Headsails	5
Spinnakers	4
STABILITY	
Righting Moment	N/A
Stability Index	N/A

Rated boat velocities in knots									
Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat Angles	42.6°	42.6°	40.5°	38.9°	37.6°	37.2°	37.1°	37.2°	38.2°
Beat VMG	2.50	3.40	4.08	4.55	4.80	4.91	4.97	5.01	4.96
52°	3.85	5.13	5.98	6.44	6.68	6.79	6.84	6.90	6.92
60°	4.08	5.37	6.17	6.59	6.81	6.94	7.00	7.08	7.11
75°	4.20	5.51	6.30	6.70	6.94	7.11	7.23	7.37	7.46
90°	4.07	5.39	6.25	6.75	7.02	7.19	7.35	7.63	7.82
110°	3.86	5.25	6.25	6.79	7.11	7.38	7.64	8.07	8.36
120°	3.68	5.04	6.06	6.68	7.05	7.34	7.62	8.28	8.87
135°	3.22	4.49	5.53	6.33	6.81	7.14	7.45	8.11	9.02
150°	2.63	3.81	4.87	5.75	6.43	6.85	7.16	7.76	8.49
Run VMG	2.28	3.30	4.22	5.02	5.72	6.29	6.72	7.31	7.88
Gybe Angles	146.5°	146.5°	151.6°	155.2°	162.1°	169.1°	177.7°	179.0°	178.8°

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Time Allowances in secs/NM										
Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt	
Beat VMG	1442.1	1058.1	881.6	791.5	749.6	733.4	724.8	719.1	725.8	
52°	934.3	701.8	602.4	558.9	539.3	530.5	526.1	521.5	520.6	
60°	882.9	670.5	583.1	546.7	528.6	518.9	514.2	508.5	506.3	
75°	856.3	653.6	571.5	537.0	518.7	506.4	497.7	488.6	482.9	
90°	884.3	667.9	576.0	533.3	512.6	500.6	490.0	471.6	460.3	
110°	933.0	685.6	575.8	529.9	506.0	487.9	471.5	446.3	430.4	
120°	978.7	714.4	594.1	538.6	510.6	490.5	472.3	434.9	405.9	
135°	1118.6	801.9	650.4	568.9	528.6	504.0	483.4	444.0	399.1	
150°	1367.3	945.7	739.3	625.6	560.1	525.4	502.6	464.1	424.2	
Run VMG	1580.3	1092.0	852.7	717.5	629.1	572.4	535.9	492.4	457.0	
Selected Courses										
Windward / Leeward	1509.0	1075.0	867.2	754.5	689.3	652.9	630.4	605.8	591.4	
All purpose	1139.9	829.6	686.0	613.1	574.4	552.8	538.1	517.4	502.1	

Single Number Scoring Options			
Course	Time On Distance	Time On Time	
Windward / Leeward	722.1	0.8309	
All purpose	595.3	1.0080	

Custom scoring options for Greece

Scoring Option	Time On Distance	Time On Time
Coastal/Long Distance	646.0	0.9288
Triple Number Coastal/Long Distance Low	757.8	0.7918
Triple Number Coastal/Long Distance Medium	591.2	1.0149
Triple Number Coastal/Long Distance High	534.0	1.1235
Triple Number Windward/Leeward Low	971.0	0.6179
Triple Number Windward/Leeward Medium	716.8	0.8371
Triple Number Windward/Leeward High	626.8	0.9573

Performance Curve	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Coastal/Long Distance	1609.0	1076.7	818.4	685.4	610.4	572.9	544.7	497.7	480.8

- AUS AUT BRA BUL CAN CYP DEN ESP EST FIN FRA GER GRE HUN ISR
JPN KOR LTU NED NOR POR RSA RUS SLO SUI SWE UKR USA

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HULL AND APPENDAGES (Lightship Trim)										Data in meters/kilograms (Metric)			
Class	X-102	LOA	9.979	VCGD	0.045								
Measurement	23/05/1987	Max. Beam	3.346	VCGM	0.053								
HIN		Draft	1.947	RM Rated (kg-m)	94.6								
Plan review		Displacement	4,741	Limit of positive stability(*)	N/A								
Hull construction	Cored	Wetted area	21.26	Stability Index	N/A								
Carbon rudder	No	IMS L	8.503	Default crew weight	504								
Light stanchions	No	LSM0	8.038	Declared crew weight	523								
Trim tab	No	Acc. length	9.979										
		Sink (kg/mm)	15.38										
PROPELLER													
Propeller Type	Feathering 2 blades												
Installation	Shaft exposed	PRD	0.360	PSD	PSA								
Twin screw	No	PBW		PHD	ESL								
Hydro generator	No	PIPA	0.0017	PHL	ST1 ST2 ST3 ST4 ST5								
RIG													
Forestay tension	At	P	12.900	E	4.600								
Inner stay	None Fitted	IG	11.750	J	3.450								
Mast material	Aluminum	ISP	11.750	BAS	1.530								
Single headsail furler	No	MDT1	0.150	FSD	Foil								
Mainsail furler	No	MDL1	0.200	SFJ	0.000								
Articulated bowsprit	No	MDT2	0.000	SPL	3.530								
Non-circular rigging	No	MDL2	0.000	WPL									
Fiber rigging	No	TL	Taper	TPS									
Adjustable mast foot	No	MW		BD	0.135								
Running backstays	2	GO		MWT									
Checkstays	0			MCG									
Spreaders	2												
Rotating mast	No												
FLOTATION AND STABILITY													
Calculation method	RM estimated												
Flotation Date	26/06/1986												

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MAINSAIL												
Id	MHB	MUW	MTW	MHW	MQW	Area	Meas.Date	Comment				
M1	0.16	0.87	1.54	2.71	3.70	33.35	16/04/2018					
HEADSAIL												
Id	HBB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying FT	Area	Meas.Date	Comment
H1	0.04	0.61	1.20	2.45	3.76	5.13	11.54	No	No	28.90	16/04/2018	
1	0.05	0.45	0.80	1.61	2.45	3.38	11.02	No	No	18.20		
SYMMETRIC SPINNAKER												
Id	SLU	SLE	SL	SHW	SFL	Area	Meas.Date	Comment				
1	11.54	11.54	11.54	6.20	6.15	59.53						
2	11.45	11.45	11.45	6.10	6.35	58.68	29/05/2024					

CRUISER/RACER REQUIREMENTS*			
Accommodation length	10.0 m	Table area	0.44 m²
Minimum number of berths	4	Personal gear stowage	0.16 m³
Minimum number of seats in cockpit	4	Food stowage	0.24 m³
Cabin sole		Stoves	
Galley gear stowage		Toilet	
Navigation area		Hanging locker	
Headroom	1.70 m	Fresh water capacity	80 l
Fuel capacity	50 l	Sinks	
Wash basin			

*This list is a summary of the requirements. See IMS Appendix 1 for details.

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