

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



Certificate
Number **00451**
Issued On **27/03/2020**
ORC Ref **03420000F91**
VPP Ver. **2020 1.01**
Valid until **28/02/2021**

Crew Weight

Default	472kg
Maximum	472kg
Minimum*	354kg

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

Special Scoring

ToD	ToT
Non Spin GPH 837.6	0.7163
Non Spin OSN 804.3	0.7460

Sails Limitations

Headsails **5** Spinnakers **0**

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

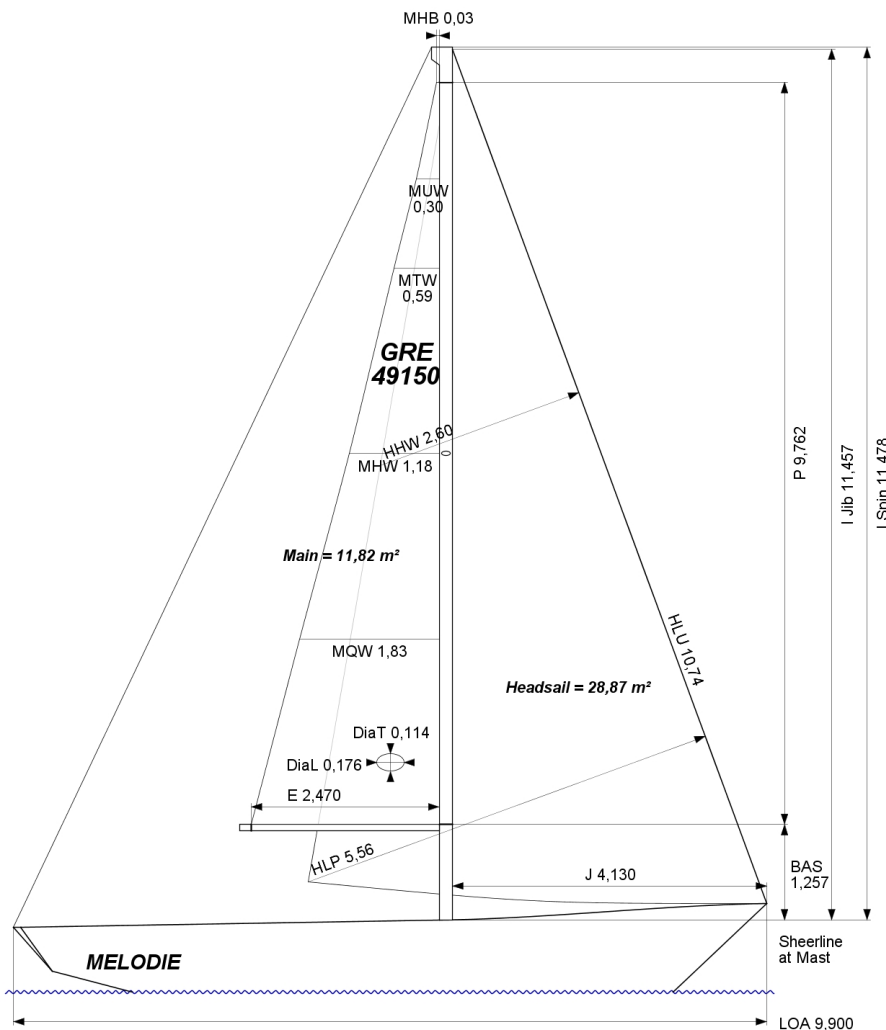
Class Division Length

CDL = 6.304

Stability (Estimated)

Limit Positive Stab.: **107.9°**
Stability Index: **107.3**

Owner



BOAT		GPH		HULL					
Name MELODIE Sail Nr GRE-49150		837.6		Data File GR49150	LOA 9.900m				
				Offset File GR0055.OFF	MB 3.338m				
				Displacement 4,589kg	Draft 1.601m				
CLASS				IMS Division Cruiser/Racer	Dynamic All. 0.638%				
Class FANDANGO 33				Plan Review	Construction Solid				
Designer Yves Mareschal				Fiber Rigging No	Aramid Core No				
Builder JOUET				Crew Arm Ex	Carbon Rudder No				
Series 01/1974				Light Stanchions No					
Age Date 01/1974				IMSL 7.820m	VCGD 0.011m	Sink 13.99kg/mm			
Age Allowance 0.487%				RL 4.787m	VCGM 0.131m	WS 20.07m²			
COMMENTS				LSM0 7.673m	Displacement/Length ratio 10.1583				
				Water Ballast 0	Trim Tab No				
				BLR Index 0.0000					
PROPELLER				CENTERBOARD					
Installation Shaft exposed	PRD 0.390	NA							
Type Solid 2 blades	PIPA 0.0159								
SCORING OPTIONS									
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD					
Time on Distance	804.3			899.2					
Time on Time	0.7460			0.7506					
Triple Number	Low	Medium	High	Low	Medium	High			
Time on Distance	1017.0	731.2	610.4	1317.3	917.0	735.5			
Time on Time	0.6637	0.9231	1.1058	0.5124	0.7361	0.9177			

BOAT	
Name MELODIE	Sail Nr GRE-49150
File GR49150	Data in meters/kilograms

RIG	
Forestay Tension Fixed	Spreaders 1
Inner Stay None Fitted	Runners/Checkstays 0
Carbon Mast No	Jib Furler No
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 9.762	E 2.470 MDT1 0.114 MW
IG 11.457	J 4.130 MDL1 0.176 GO
ISP 11.478	SFJ 0.000 MDT2 0.114 BD
BAS 1.257	SPL 4.108 MDL2 0.176 MWT
FSD -3.000	TPS TL 0.000 MCG

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 08/06/2000		SG	
FFM 1.132	FF 1.140	SFFP 0.776	
FAM 0.848	FA 0.854	SAFP 9.800	
LCF from stem on CL / on sheer		5.349 / 5.596	
Maximum beam station from stem		5.495	
RM Measured		66.1kg-m	
RM Default		64.2kg-m	
Limit of positive stability / Stab.Index		107.9° / 107.3	
Freeboard at mast at 4.130		0.948	



ORC
Offshore Racing Congress
World leader in rating technology


2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0.390		
Type Solid 2 blades	PBW		
Twin Screw No	PIPA 0.0159		
PSA	PHL	ST3	ESL
PSD	ST1	ST4	
PHD	ST2	ST5	

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	0.03	0.30	0.59	1.18	1.83	11.83					* Copied from legacy					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.05	0.64	1.26	2.60	4.05	5.56	10.74	135%	28.87		No		03/04/2014	PLATON	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	MELODIE
Sail Nr	GRE-49150
Certificate Number	00451
Issued On	27/03/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1477.2	1201.5	1058.6	965.1	894.4	844.8	820.2
52°	942.3	779.6	689.3	629.7	593.9	573.5	558.9
60°	881.1	736.2	649.5	599.3	573.0	557.1	540.7
75°	843.7	709.0	622.1	578.7	557.2	542.9	521.5
90°	861.5	720.9	631.0	578.7	550.0	531.9	503.6
110°	926.8	756.1	654.7	588.5	556.3	536.7	504.4
120°	997.6	797.4	685.9	607.9	566.3	543.6	510.0
135°	1127.3	877.8	745.1	656.0	593.9	560.6	523.8
150°	1288.4	983.8	817.4	714.5	638.2	586.3	538.5
Run VMG	1473.8	1116.3	913.6	788.3	701.7	634.3	559.6
Selected Courses							
Windward / Leeward	1475.6	1158.9	986.1	876.7	798.1	739.5	689.9
Circular Random	1205.4	952.5	810.3	722.7	665.9	628.2	584.8
Coastal / Long Distance	1475.4	1089.0	884.4	753.9	675.2	620.2	555.2
Non Spinnaker	1205.4	952.5	810.3	722.7	665.9	628.2	584.8

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	45.8°	44.3°	43.7°	43.5°	43.1°	42.2°	42.0°
Beat VMG	2.44	3.00	3.40	3.73	4.03	4.26	4.39
52°	3.82	4.62	5.22	5.72	6.06	6.28	6.44
60°	4.09	4.89	5.54	6.01	6.28	6.46	6.66
75°	4.27	5.08	5.79	6.22	6.46	6.63	6.90
90°	4.18	4.99	5.71	6.22	6.55	6.77	7.15
110°	3.88	4.76	5.50	6.12	6.47	6.71	7.14
120°	3.61	4.51	5.25	5.92	6.36	6.62	7.06
135°	3.19	4.10	4.83	5.49	6.06	6.42	6.87
150°	2.79	3.66	4.40	5.04	5.64	6.14	6.69
Run VMG	2.44	3.23	3.94	4.57	5.13	5.68	6.43
Gybe Angles	162.0°	166.0°	170.0°	172.0°	173.0°	174.0°	178.0°