

BOAT Name DE MALO Sail Nr GRE-49279	GPH 588,4	HULL Length Overall 11,960m Maximum Beam 3,258m Displacement 5.462kg Draft 2,036m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,000% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class X-119 Designer NEILS JEPPESEN Builder X YACHTS Series 01/1990 Age 03/1990 Age Allowance 0,487% Offset File GR0041.BOF - 11/2/1994 12:41:00 Measurement by - 13/05/2007		IMSL 10,336m VCGD 0,022m Sink 19,07kg/mm RL 9,612m VCGM -0,036m WS 26,27m² LSMO 10,232m Displacement/Length ratio 5,0988



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2018
ORC International
Certificate

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



SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	573,8			641,6		
Time on Time	1,0456			1,0520		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	665,0	523,7	469,4	862,5	645,5	563,2
Time on Time	1,0150	1,2889	1,4379	0,7826	1,0457	1,1986

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	932,0	772,7	708,2	681,1	666,6	661,6	650,3
52°	612,3	519,3	490,7	480,7	475,6	472,7	466,3
60°	579,9	501,7	477,4	468,2	463,0	459,7	453,1
75°	557,4	490,9	466,6	452,1	443,8	438,2	432,5
90°	564,6	492,6	464,9	445,7	429,1	416,4	404,1
110°	607,6	503,0	464,3	438,9	418,1	405,2	382,9
120°	628,6	515,8	470,9	443,4	416,4	391,0	361,2
135°	703,7	566,8	495,8	463,6	438,0	411,3	357,5
150°	842,9	668,5	560,3	495,9	465,3	441,2	392,2
Run VMG	973,3	771,9	646,9	565,9	513,0	476,3	428,8

Certificate
Number **001250**
ORC Ref **GRE01009413**
Issued On **13/4/2018**
VPP Ver. **2018 1.00**
Valid until **28/2/2019**

Crew Weight
Default **711kg**
Maximum **700kg**
Minimum* **525kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	594,5	1,0093
Double H.OSN	582,4	1,0302
Non Spin GPH	608,5	0,9860
Non Spin OSN	593,9	1,0102

Selected Courses							
Windward / Leeward	952,7	772,3	677,6	623,5	589,8	569,0	539,5
Circular Random	803,0	651,3	571,2	525,4	497,1	478,0	451,7
Coastal / Long Distance	954,7	726,8	611,5	544,9	508,1	478,7	431,5
Non Spinnaker	839,0	676,9	590,3	540,1	509,0	488,0	459,2

Sails Limitations

Headsails	Spinnakers
6	4

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	42,7°	41,4°	39,9°	38,6°	38,2°	37,9°	38,0°
Beat VMG	3,86	4,66	5,08	5,29	5,40	5,44	5,54
52°	5,88	6,93	7,34	7,49	7,57	7,62	7,72
60°	6,21	7,18	7,54	7,69	7,78	7,83	7,94
75°	6,46	7,33	7,72	7,96	8,11	8,22	8,32
90°	6,38	7,31	7,74	8,08	8,39	8,65	8,91
110°	5,93	7,16	7,75	8,20	8,61	8,88	9,40
120°	5,73	6,98	7,64	8,12	8,65	9,21	9,97
135°	5,12	6,35	7,26	7,76	8,22	8,75	10,07
150°	4,27	5,39	6,43	7,26	7,74	8,16	9,18
Run VMG	3,70	4,66	5,56	6,36	7,02	7,56	8,40
Gybe Angles	140,0°	147,9°	149,3°	156,2°	173,0°	180,0°	180,0°

Class Division Length
CDL = **9,975**

Storm Sails Areas

Heavy Weather Jib	25,96
Storm Jib (JL=9,01)	9,62
Storm Trysail	14,02

Owner

BOAT	
Name DE MALO	Sail Nr GRE-49279
File GR49279	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 13/05/2007		SG 1,0240	
FFM 1,044	FF 1,054	SFFP 0,670	
FAM 0,910	FA 0,915	SAFP 11,050	
W1 80,0	PD1 242,0	WD 10,460	
W2 80,0	PD2 242,0	GSA 23,8	
W3 80,0	PD3 242,0	RSA 5941,7	
W4 80,0	PD4 242,0	PLM 2066,0	
LCF from stem on CL / on sheer		6,606 / 6,788	
Maximum beam station from stem		7,885	
RM Measured		124,5kg·m	
RM Default		139,2kg·m	
Limit of positive stability / Stab.Index		117,0° / 120,7	
Freeboard at mast at 4,314		1,019	



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IMS Measurement Certificate

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 2		
Carbon Mast No	Jumper Struts Yes		
Taper Hollows No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 15,186	E 5,274	MDT1 0,115	MW 0,168
IG 13,807	J 4,314	MDL1 0,168	GO 0,187
ISP 13,875	SFJ 0,000	MDT2 0,093	BD 0,200
BAS 1,912	SPL 4,310	MDL2 0,118	MWT
FSP 0,042	TPS	TL 1,800	MCG

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0,390	
Type Folding 2 blades	PBW	
Twin Screw No	PIPA 0,0030	
ST1 0,045	ST3	ST5 0,302
ST2	ST4 0,096	EDL 1,362

COMMENTS	
ex "DE-MALO-X", ex "ANTONIOS BENAKIS"	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,150	1,05	1,94	3,35	4,44	47,25	48,13	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	89,63	SL · (SFL + 4·SHW) / 6		
	13,85	13,85	13,85	7,80	7,63				
Asymmetric	Not Available								

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0,00	0,00	0,00	0,00	0,00	6,18	0,00	45,69				Unknow	

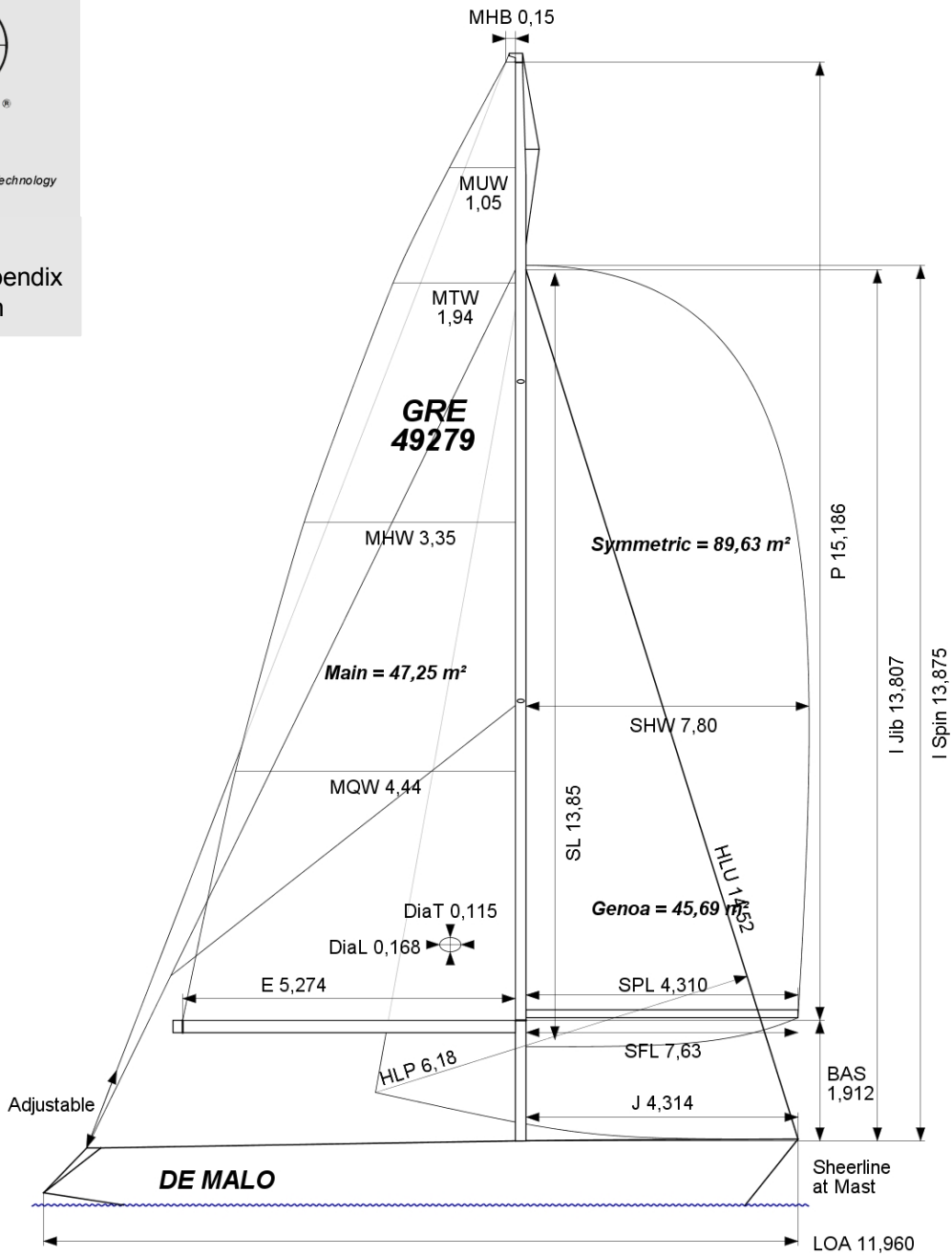
MEASUREMENT INVENTORY				
Measurer GRE-15				
Date 13/05/2007				
Comment				
Id	Item	Weight	Distance	VCG Description
2a	Chain	21,0	7,20	BRUCE-6 Kgr &
2b	Chain	10,0	11,00	DELTA
4	Feels	6,0	8,40	
Id	Item	Maker	Model	
5	Engine	VOLVO	PENTA 2040	
Id	Item	Weight	Description	
8	Fwd Items	14,0		

MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
6a	Tank	WATER	PLASTIC	120,0	5,90		0,0 EMPTY
6b	Tank	FUEL	INOX	80,0	5,50		80,0 FULL
6c	Tank	BOILER	INOX	20,0	8,50		0,0 EMPTY
Id	Item	Weight	Distance	VCG Description			
3	Battery	75,0	6,20	3 x 75 Ah			
9	Misc	12,0	7,90	FIRE EXTINGUISHERS			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0,150	1,05	1,94	3,35	4,44	47,25					* Copied from legacy

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
	0,00	0,00	0,00	0,00	0,00	6,18	0,00	143%	45,69							Unknow

SYMMETRIC SPINNAKERS (2)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	13,85	13,85	13,85	7,80	7,63	89,63				Unknown	
1	13,75	13,75	13,75	7,62	7,62	87,31				Unknown	

ASYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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