



World Leader in Rating Technology

2017 ORC Club Certificate

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



Certificate
 Number **F00954**
 Issued On **16/4/2017**
 ORC Ref **GRE01007192**
 VPP Ver. **2017 1.00**
 Valid until **28/2/2018**

Crew Weight
 Declared **640kg**
 Default* **646kg**
 Non Manual Pwr **No**

Special Scoring
 ToD ToT
 Non Spin GPH **682,8 0,8787**
 Non Spin OSN **660,1 0,9090**

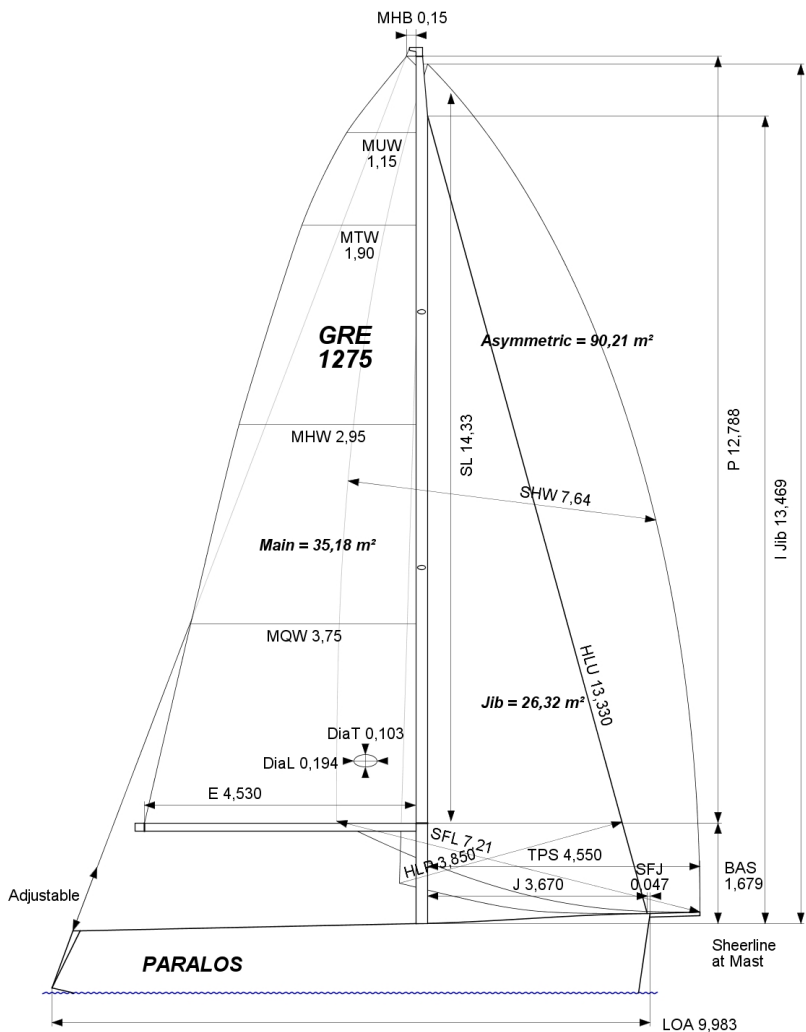
Sails Limitations
 Headsails **5** Spinnakers **3**

Spinnaker configuration
 Symmetric: **No**
 Asymmetric: **Yes 90,21**
 Flying H/S: **No**
 Spin. Pole: **No**

Class Division Length
 CDL = **8,742**

Stability (Measured)
 Limit Positive Stab.: **114,7°**
 Stability Index: **115,2**

Owner



BOAT Name PARALOS Sail Nr GRE-1275		GPH 646,8	HULL Data File GR1275 LOA 9,983m Offset File ELAN340.OFF MB 3,466m Displacement 5.172kg Draft 2,057m			
CLASS Class ELAN 340 Designer R. HUMPHREYS Builder ELAN Series 01/2006 Age Date 01/2007 Age Allowance 0,357%		IMS Division Cruiser/Racer Dynamic All. 0,225% Fwd Accom. Yes Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		IMSL 9,542m VCGD 0,162m Sink 17,71kg/mm RL 7,941m VCGM 0,102m WS 23,38m² LSM0 9,566m Displacement/Length ratio 5,9084		
COMMENTS		Water Ballast 0 Trim Tab No				
PROPELLER Installation Strut PRD 0,404 Type Folding 2 blades PBW 0,120 PIPA 0,0037		CENTERBOARD N/A				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	629,1			705,0		
Time On Time	0,9537			0,9574		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	738,8	573,4	513,1	955,8	711,0	616,7
Time on Time	0,9136	1,1771	1,3155	0,7062	0,9494	1,0946

BOAT	
Name PARALOS	Sail Nr GRE-1275
File GR1275	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 27/04/2013		SG 1,0210	
FFM 1,312	FF 1,311	SFFP 0,360	
FAM 1,039	FA 1,044	SAFP 9,513	
W1 65,1	PD1 252,0	WD 10,244	
W2 65,1	PD2 252,0	GSA 41,9	
W3 65,1	PD3 252,0	RSA 6082,1	
W4 65,1	PD4 252,0	PLM 2110,0	
LCF from stem on CL / on sheer		5,598 / 5,854	
Maximum beam station from stem		6,210	
RM Measured		97,0kg·m	
RM Default		104,0kg·m	
Limit of positive stability / Stab.Index		114,7° / 115,2	
Freeboard at mast at 3,717		1,156	

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 12,788	E 4,530	MDT1 0,103	MW 0,194
IG 13,469	J 3,670	MDL1 0,194	GO 0,209
ISP 14,339	SFJ 0,047	MDT2 0,103	BD 0,142
BAS 1,679	SPL 0,114	MDL2 0,114	MWT
FSP 0,062	TPS 4,550	TL 0,998	MCG



World Leader in Rating Technology

2017 Measurements Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0,404		
Type Folding 2 blades	PBW 0,120		
Twin Screw No	PIPA 0,0037		
ST1 0,065	ST3 0,180	ST5 0,300	
ST2 0,180	ST4 0,110	EDL 2,370	

COMMENTS	

MOVEABLE BALLAST			
N/A			

CENTERBOARD	
N/A	

Certificate

Number **F00954**
 ORC Ref **GRE01007192**
 Issued On **16/4/2017**
 VPP Ver. **2017 1.00**
 Valid until **28/2/2018**



SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0,150	1,15	1,90	2,95	3,75	35,17	KALATZIS	18/12/2016	ZOUGANELI	Pentex						
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
3	0,09	0,55	1,05	1,99	2,92	3,85	13,33	105%	26,32	Y		KALATZIS	12/05/2015	ZOUGANELI	Polyest	No 1 LIGHT
2	0,08	0,51	0,97	1,91	2,90	3,92	12,74	107%	24,78	Y		KALATZIS	28/03/2013	ZOUGANELI	Pentex	HIGH TACK
1	0,08	0,49	0,94	1,87	2,84	3,84	13,02	105%	24,77	Y		KALATZIS	06/02/2011	ZOUGANELI	Pentex	No 1
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
2	15,65	13,01	14,33	7,64	7,21	90,21	asym	KALATZIS	09/12/2015	ZOUGANELI	Nylon	BLACK				
1	13,90	12,99	13,45	7,27	7,62	82,24	asym	KALATZIS	15/03/2015	ZOUGANELI	Nylon	WHITE				

MEASUREMENT INVENTORY				
Measurer KALATZIS GRE-21				
Date 27/04/2013				
Comment				
Id	Item	Weight	Distance	VCG Description
1	Engine			VOLVO PENTA D1-30
Id	Item	Weight	Distance	Description

MEASUREMENT INVENTORY										
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condn	Description		
1	Tank	FUEL	INOX	100,0	7,98			25,0		
2	Tank	WATER	PVC hard	100,0	4,08			0,0 S		
3	Tank	WATER	pvc hard	100,0	4,08			0,0 P		
Id	Item	Weight	Distance	VCG Description						
1	Battery		5,08	2 x 100 Ah (P)						
2	Battery		5,08	1 x 70 Ah (P)						
1	Misc		0,95	ANCHOR WINDLASS LEWMAR X2						
2	Misc		4,67	WATER HEATER 20L (P)						



World Leader in Rating Technology

2017

ORC Club Certificate Appendix

BOAT	
Name	PARALOS
Sail Nr	GRE-1275
Certificate Number	F00954
Issued On	16/4/2017

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1107,2	919,4	815,5	749,3	723,2	711,4	700,2
52°	725,5	611,1	548,3	521,3	510,4	505,6	501,6
60°	684,9	578,6	529,8	508,1	496,4	491,0	487,1
75°	652,0	555,1	516,6	496,8	481,5	469,5	458,8
90°	643,7	539,2	501,5	488,6	478,0	461,9	434,8
110°	641,1	536,0	498,4	473,8	452,6	440,8	421,6
120°	661,8	549,3	505,1	480,2	455,3	430,7	403,5
135°	734,3	600,3	527,9	497,0	474,1	450,2	404,6
150°	864,4	691,6	590,2	534,6	507,2	489,0	451,4
Run VMG	998,1	798,6	681,5	617,3	574,0	528,4	484,0

Selected Courses							
Windward / Leeward	1052,7	859,0	748,4	683,3	648,6	619,9	592,1
Circular Random	888,2	718,2	627,6	575,4	543,4	522,6	496,1
Ocean for PCS	1086,7	842,1	704,3	620,1	565,3	527,1	474,2
Non Spinnaker	957,6	766,0	661,4	599,6	561,2	536,2	505,1

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	42,8°	41,1°	41,3°	40,1°	38,9°	38,3°	37,9°
Beat VMG	3,25	3,92	4,41	4,80	4,98	5,06	5,14
52°	4,96	5,89	6,57	6,91	7,05	7,12	7,18
60°	5,26	6,22	6,80	7,09	7,25	7,33	7,39
75°	5,52	6,48	6,97	7,25	7,48	7,67	7,85
90°	5,59	6,68	7,18	7,37	7,53	7,79	8,28
110°	5,62	6,72	7,22	7,60	7,95	8,17	8,54
120°	5,44	6,55	7,13	7,50	7,91	8,36	8,92
135°	4,90	6,00	6,82	7,24	7,59	8,00	8,90
150°	4,16	5,21	6,10	6,73	7,10	7,36	7,98
Run VMG	3,61	4,51	5,28	5,83	6,27	6,81	7,44
Gybe Angles	145,2°	148,1°	147,7°	149,7°	174,2°	177,0°	178,3°