



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

Hellenic Sailing Federation
Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας



Certificate

Number **001149**
Issued On **6/5/2016**
ORC Ref **GRE01005842**
VPP Ver. **2016 1.01**
Valid until **28/2/2017**

Crew Weight

Declared **615kg**
Default* **615kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	716,4	0,8375
Non Spin OSN	691,9	0,8671
N/S Perf. Line	-15,8	0,514

Sails Limitations

Headsails **1** Spinnakers **0**
Dacron Sails

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

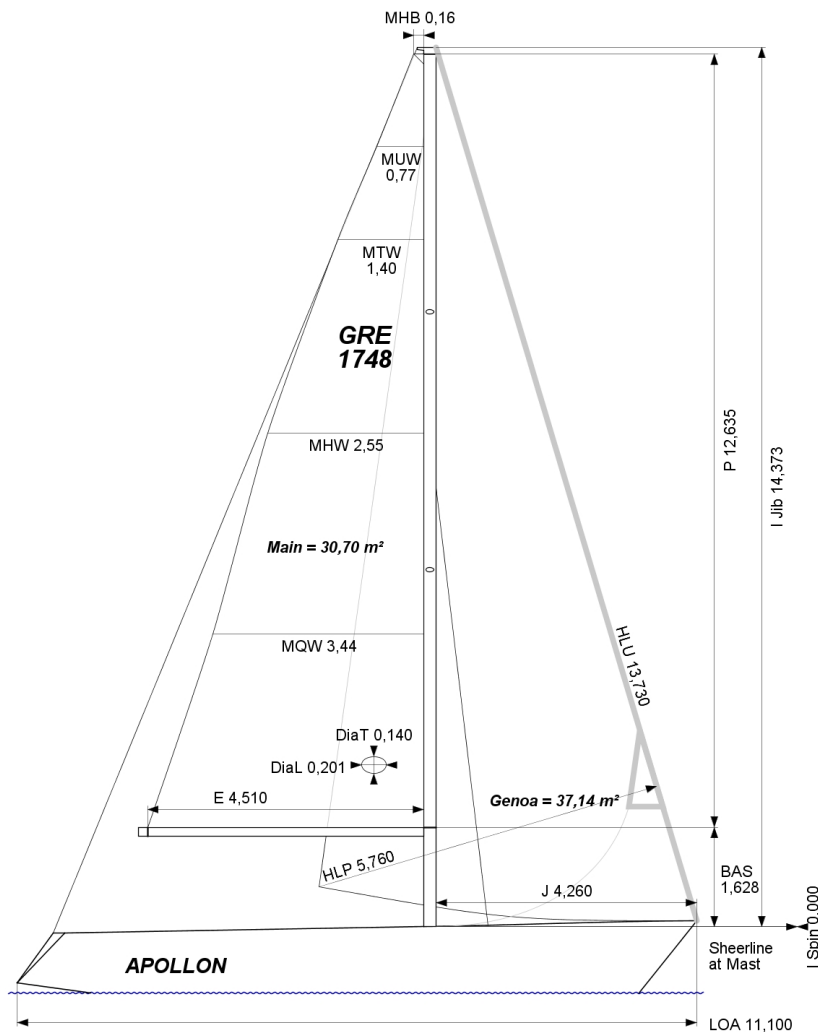
Class Division Length

CDL = **8,138**

Stability

LPS (Estimated): **114,4°**
Stability Index: **115,9**
OSR Category: **N/A**

Owner



BOAT		GPH		HULL		
Name	APOLLON	716,4	Data File	GR1748.dxt	LOA	11,100m
Sail Nr	GRE-1748		Offset File	GR0001.bof	MB	3,644m
CLASS		DISPLACEMENT		DRAFT		
Class	APOLLO 12	Displacement	6,300kg	Draft	1,933m	
Designer	JUDEL/VROLIJK	IMS Division	Cruiser/Racer	Dynamic All.	0,408%	
Builder	DROMOR	Fwd Accom.	Yes	Construction	Solid	
Series	01/1990	Fiber Rigging	No	Aramid Core	No	
Age Date	01/1990	Crew Arm Ex	No	Carbon Rudder	No	
Age Allowance	0,488%	Light Stanchions	No	Displacement/Length ratio	7,9730	
COMMENTS		WATER BALLAST		TRIM TAB		
Builder's declared displacement.		Water Ballast	0	Trim Tab	No	
PROPELLER		CENTERBOARD				
Installation	Shaft exposed	PRD	0,350	N/A		
Type	Solid 3 blades	PIPA	0,0153			
SCORING OPTIONS						
Time On Distance	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	691,9			772,2		
Time On Time	0,8671			0,8741		
	PLT	PLD		PLT	PLD	
Performance Line	0,514	-15,8		0,576	73,8	
	Low	Medium	High	Low	Medium	High
Triple Number	0,7832	1,0791	1,2669	0,5954	0,8606	1,0595

BOAT	
Name APOLLON	Sail Nr GRE-1748
File GR1748.dxt	Data in meters/kilograms

RIG	
Forestay Tension Fixed	Spreaders 2
Inner Stay Fixed	Runners 0
Carbon Mast No	Jumper Struts None
Taper Hollows No	Jib Furler Yes
Fiber Rigging No	Main Furler No
Lenticular Rigging No	Without Backstay No
Articulated Bowsprit No	
P 12,635	E 4,510 MDT1 0,140 MW
IG 14,373	J 4,260 MDL1 0,201 GO
ISP	SFJ 0,000 MDT2
BAS 1,628	SPL MDL2
FSP 0,068	TPS TL -3,000 MCG

MIZZEN RIG AND SAILS	
N/A	

COMMENTS	
Builder's declared displacement.	

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 09/04/2016		SG	
FFM	FF 1,177	SFFP	0,390
FAM	FA 0,979	SAFP	10,323
LCF from stem on CL / on sheer		5,968 / 6,230	
Maximum beam station from stem		6,676	
RM Measured		129,0kg·m	
RM Default		125,3kg·m	
Limit of positive stability / Stab.Index		114,4° / 115,9	
Freeboard at mast at 4,260		1,081	

PROPELLER			
Installation	Shaft exposed	PRD	0,350
Type	Solid 3 blades	PBW	
Twin Screw	No	PIPA	0,0153
PSA	PHL	ST3	ESL
PSD	ST1	ST4	
PHD	ST2	ST5	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area Area (r) Formula
	0,160	0,77	1,40	2,55	3,44	30,70 30,98 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric						
Not Available						
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
0,08	0,62	1,23	2,56	4,05	5,76	13,73	37,15			01/04/2016	Dacron	



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Measurements Datasheet

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ORC Club Certificate Appendix

BOAT	
Name	APOLLON
Sail Nr	GRE-1748
Certificate Number	001149
Issued On	6/5/2016

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1239,2	1011,3	887,5	801,4	748,1	724,9	711,1
52°	791,6	656,6	576,6	531,7	510,8	501,3	495,1
60°	735,8	614,5	544,5	512,9	496,1	485,7	477,6
75°	690,6	578,5	523,0	499,0	482,7	469,1	449,9
90°	692,9	581,1	524,6	500,0	483,8	469,1	441,6
110°	781,1	638,0	553,1	513,7	492,3	475,1	441,1
120°	832,1	675,9	581,5	526,9	500,7	482,5	449,0
135°	958,7	754,7	643,1	566,5	523,0	499,7	466,7
150°	1134,1	868,4	722,8	630,6	563,3	523,1	483,7
Run VMG	1300,4	983,7	804,4	692,6	613,8	555,5	498,3

Selected Courses							
Windward / Leeward	1269,8	997,5	845,9	747,0	681,0	640,2	604,7
Circular Random	1023,5	811,2	693,1	621,6	576,4	546,8	512,4
Ocean for PCS	1274,1	961,0	782,2	672,1	600,9	552,7	490,8
Non Spinnaker	1023,5	811,2	693,1	621,6	576,4	546,8	512,4

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	45,2°	43,6°	43,2°	43,4°	41,9°	40,8°	40,4°
Beat VMG	2,91	3,56	4,06	4,49	4,81	4,97	5,06
52°	4,55	5,48	6,24	6,77	7,05	7,18	7,27
60°	4,89	5,86	6,61	7,02	7,26	7,41	7,54
75°	5,21	6,22	6,88	7,21	7,46	7,67	8,00
90°	5,20	6,20	6,86	7,20	7,44	7,67	8,15
110°	4,61	5,64	6,51	7,01	7,31	7,58	8,16
120°	4,33	5,33	6,19	6,83	7,19	7,46	8,02
135°	3,75	4,77	5,60	6,36	6,88	7,20	7,71
150°	3,17	4,15	4,98	5,71	6,39	6,88	7,44
Run VMG	2,77	3,66	4,48	5,20	5,86	6,48	7,22
Gybe Angles	169,1°	169,9°	171,2°	172,3°	172,7°	174,2°	177,3°