



World Leader in Rating Technology

2016 ORC Club Certificate



Certificate
 Number **001129**
 Issued On **15/3/2016**
 ORC Ref **GRE01005157**
 VPP Ver. **2016 1.01**
 Valid until **28/2/2017**

Crew Weight
 Declared **600kg**
 Default* **948kg**
 Non Manual Pwr **No**

Special Scoring
 ToD ToT
 Non Spin GPH **573,6 1,0460**
 Non Spin OSN **558,1 1,0751**
 N/S Perf. Line **-27,5 0,622**

Sails Limitations
 Headsails **7** Spinnakers **4**

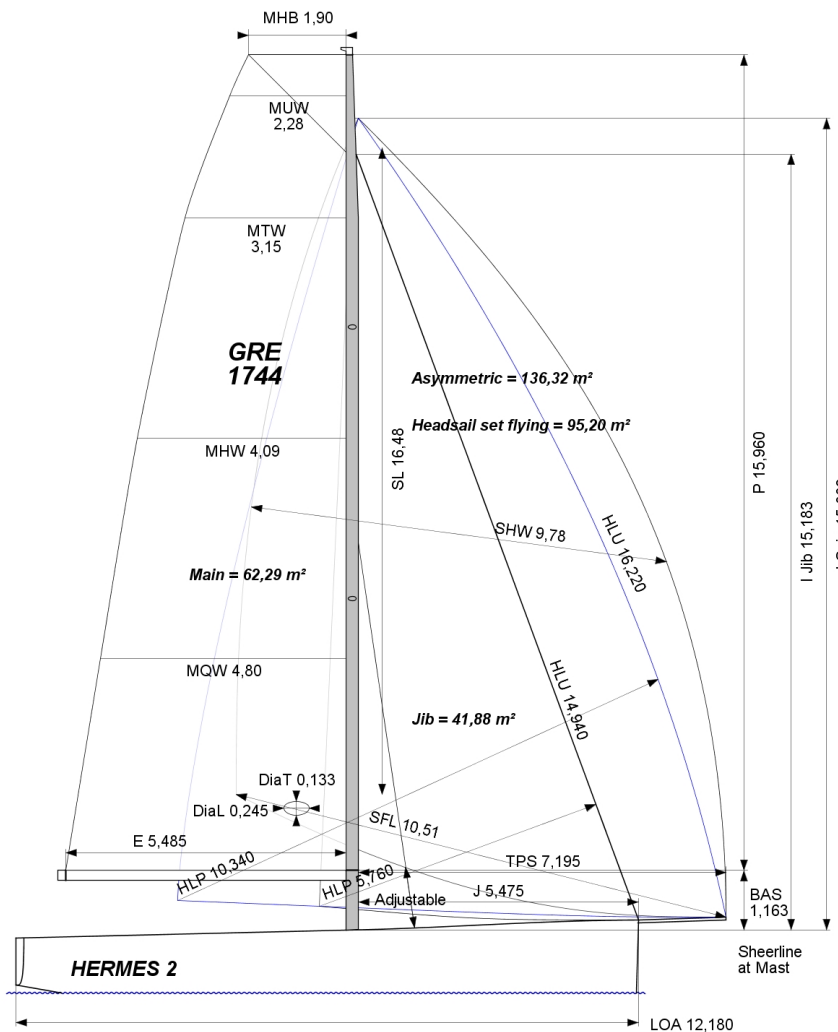
Spinnaker configuration
 Symmetric: **No**
 Asymmetric: **Yes 136,32**
 Flying H/S: **Yes 95,20**
 Spin. Pole: **No**

Class Division Length
 CDL = **11,982**

Stability
 LPS (Estimated): **108,3°**
 Stability Index: **105,5**
 OSR Category: **N/A**

Owner
 AFTIAS MICHALIS/LAZARIDIS
 STEFANOS
 KORINTHIAS 5
 15234 CHALANDRI, HELLAS
 NAO LAVREOTIKIS

I certify that I understand my responsibilities under ORC Rules and Regulations
 Signature



BOAT Name HERMES 2 Sail Nr GRE-1744		GPH 534,1	HULL Data File GR1744.dxt LOA 12,180m Offset File PG1250CL.off MB 4,500m Displacement 5,508kg Draft 3,013m			
CLASS Class POGO 12.50 Designer FINOT-CONQ Builder POGO STRUCTURES Series 04/2011 Age Date 04/2014 Age Allowance 0,163%			IMS Division Cruiser/Racer Dynamic All. 0,109% Fwd Accom. Yes Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No			
COMMENTS Builder's declared displacement.			IMSL 12,255m VCGD 0,100m Sink 27,93kg/mm RL 11,707m VCGM 0,079m WS 34,70m² LSM0 12,513m Displacement/Length ratio 2,8113			
PROPELLER Installation Strut PRD 0,460 Type Folding 2 blades PIPA 0,0008			CENTERBOARD N/A			
SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	520,9			593,5		
Time On Time	1,1518			1,1374		
Performance Line	PLT 0,715	PLD -1,3		PLT 0,956	PLD 200,7	
Triple Number	Low 1,0840	Medium 1,4311	High 1,6591	Low 0,8149	Medium 1,1343	High 1,3269

BOAT	
Name HERMES 2	Sail Nr GRE-1744
File GR1744.dxt	Data in meters/kilograms

RIG	
Forestay Tension Fixed	Spreaders 2
Inner Stay Adjustable	Runners 0
Carbon Mast Yes	Jumper Struts None
Taper Hollows No	Jib Furler Yes
Fiber Rigging No	Main Furler No
Lenticular Rigging No	Without Backstay Yes
Articulated Bowsprit No	
P 15,960	E 5,485 MDT1 0,133 MW
IG 15,183	J 5,475 MDL1 0,245 GO
ISP 15,883	SFJ 0,000 MDT2 BD
BAS 1,163	SPL MDL2 MWT
FSP -3,000	TPS 7,195 TL -2,000 MCG

INCLINING TEST AND FREEBOARDS	
Inclining Test Enter VCG directly	
Flotation date 17/10/2015	SG
VCGDe 0,100	
FFM 1,426	FF 1,426 SFFP 0,185
FAM 1,071	FA 1,071 SAFP 12,180
LCF from stem on CL / on sheer 7,286 / 7,590	
Maximum beam station from stem 9,800	
RM Measured 255,5kg·m	
RM Default 214,3kg·m	
Limit of positive stability / Stab.Index 108,3° / 105,5	
Freeboard at mast at 5,475 1,234	



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2016
Measurements
Datasheet

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Installation Strut	PRD 0,460
Type Folding 2 blades	PBW
Twin Screw No	PIPA 0,0008
ST1	ST3
ST2	ST4
	ST5
	EDL

COMMENTS	
Builder's declared displacement.	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area Area (r) Formula
	1,905	2,28	3,15	4,09	4,80	62,29 64,28 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric Not Available						
Asymmetric	SLU	SLE	SL	SHW	SFL	Area Formula
	17,61	15,35	16,48	9,78	10,51	136,32 AS · (SFL + 4·SHW) / 6

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
0,04	1,69	3,35	6,44	8,81	10,34	16,22	95,21		Y	08/02/2014	Polyest	SLU=16.22, SLE=14.76, AMG=7.30, ASF=11.09
0,05	0,68	1,34	2,74	4,20	5,76	14,94	41,88			01/09/2012	Polyest	ROLLER
0,08	0,54	1,06	2,08	3,14	4,18	10,63	22,30	Y		17/10/2015	Polyest	



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ORC Club Certificate Appendix

BOAT	
Name	HERMES 2
Sail Nr	GRE-1744
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	951,4	763,9	657,8	617,1	596,3	582,0	570,1
52°	615,4	499,8	449,2	434,4	426,1	420,1	407,5
60°	560,6	467,4	435,1	418,9	408,9	401,7	386,5
75°	498,4	437,3	416,3	394,4	379,2	369,9	357,1
90°	481,6	428,5	397,1	379,3	362,4	344,0	328,7
110°	510,3	445,8	414,9	376,4	343,9	322,2	299,7
120°	561,8	466,2	424,0	386,0	347,5	316,7	284,0
135°	647,9	514,7	448,9	415,6	381,0	343,8	276,6
150°	774,4	609,4	510,6	453,8	425,5	398,7	328,6
Run VMG	894,2	703,7	589,6	523,7	490,7	457,0	379,4
Selected Courses							
Windward / Leeward	922,8	733,8	623,7	570,4	543,5	519,5	474,7
Circular Random	745,2	598,1	518,0	470,1	438,8	416,1	382,2
Ocean for PCS	933,0	711,6	586,1	508,3	456,2	417,9	361,2
Non Spinnaker	818,3	648,9	555,1	498,2	461,1	435,2	400,4

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	43,7°	42,6°	40,9°	38,4°	37,5°	36,5°	36,2°
Beat VMG	3,78	4,71	5,47	5,83	6,04	6,19	6,31
52°	5,85	7,20	8,01	8,29	8,45	8,57	8,83
60°	6,42	7,70	8,27	8,59	8,80	8,96	9,31
75°	7,22	8,23	8,65	9,13	9,49	9,73	10,08
90°	7,48	8,40	9,06	9,49	9,93	10,47	10,95
110°	7,06	8,07	8,68	9,56	10,47	11,17	12,01
120°	6,41	7,72	8,49	9,33	10,36	11,37	12,68
135°	5,56	6,99	8,02	8,66	9,45	10,47	13,01
150°	4,65	5,91	7,05	7,93	8,46	9,03	10,96
Run VMG	4,03	5,12	6,11	6,87	7,34	7,88	9,49
Gybe Angles	142,4°	144,8°	147,5°	150,8°	150,7°	177,1°	144,3°