



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

Hellenic Sailing Federation
Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας



Certificate

Number **001066**
Issued On **1/6/2016**
ORC Ref **GRE01006119**
VPP Ver. **2016 1.01**
Valid until **28/2/2017**

Crew Weight

Declared **479kg**
Default* **479kg**
Non Manual Pwr **Rig**

Special Scoring

ToD ToT
Non Spin GPH **790,4 0,7591**
Non Spin OSN **761,4 0,7880**
N/S Perf. Line **-27,3 0,455**

Sails Limitations

Headsails **5** Spinnakers **0**
Dacron Sails

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

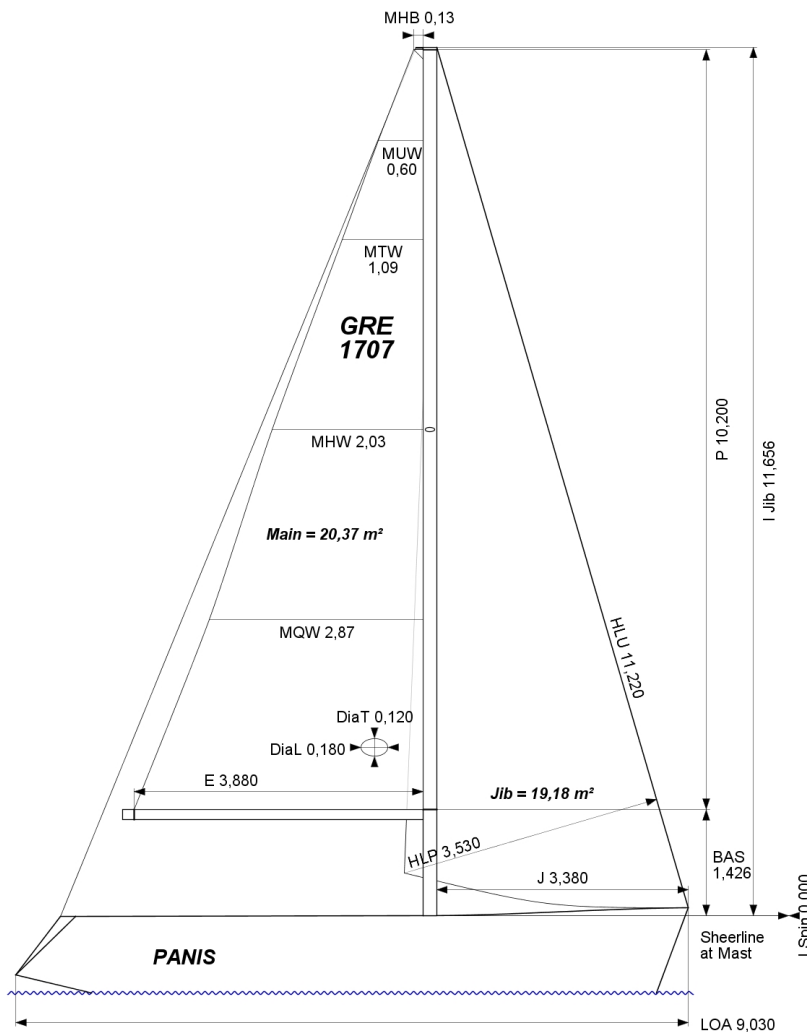
Class Division Length

CDL = **6,638**

Stability

LPS (Estimated): **114,5°**
Stability Index: **111,7**
OSR Category: **N/A**

Owner



BOAT		GPH		HULL		
Name PANIS Sail Nr GRE-1707		790,4		Data File GR1707.dxt	LOA 9,030m	
				Offset File DU30CLAS.off	MB 3,040m	
				Displacement 3.100kg	Draft 1,530m	
CLASS				IMS Division Cruiser/Racer	Dynamic All. 0,345%	
Class DUFOUR 30 CLASSIC				Fwd Accom. Yes	Construction Solid	
Designer J & J DESIGN				Fiber Rigging No	Aramid Core No	
Builder DUFOUR				Crew Arm Ex	Carbon Rudder No	
Series 01/1996				Light Stanchions No		
Age Date 01/1999				IMSL 7,922m	VCGD 0,018m	
Age Allowance 0,488%				RL 5,352m	VCGM 0,085m	
				WS 17,64m²		
COMMENTS				LSM0 7,760m	Displacement/Length ratio 6,6340	
Builder's declared displacement.				Water Ballast 0 Trim Tab No		
PROPELLER				CENTERBOARD		
Installation Strut	PRD 0,400			N/A		
Type Solid 2 blades	PIPA 0,0162					
SCORING OPTIONS						
	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	761,4			851,7		
Time On Time	0,7880			0,7925		
Performance Line	PLT 0,455	PLD -27,3		PLT 0,505	PLD 58,1	
Triple Number	Low 0,6990	Medium 0,9822	High 1,1675	Low 0,5350	Medium 0,7796	High 0,9652

BOAT	
Name PANIS	Sail Nr GRE-1707
File GR1707.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 05/09/2014		SG	
FFM	FF 1,136	SFFP	0,787
FAM	FA 1,030	SAFP	8,221
LCF from stem on CL / on sheer		4,737 / 4,946	
Maximum beam station from stem		5,183	
RM Measured		70,0kg·m	
RM Default		68,0kg·m	
Limit of positive stability / Stab.Index		114,5° / 111,7	
Freeboard at mast at 3,380		1,037	

RIG				
Forestay Tension Fixed	Spreaders 1			
Inner Stay None Fitted	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 10,200	E 3,880	MDT1 0,120	MW	
IG 11,656	J 3,380	MDL1 0,180	GO	
ISP	SFJ 0,000	MDT2	BD	
BAS 1,426	SPL 3,335	MDL2	MWT	
FSP -3,000	TPS	TL -3,000	MCG	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0,400		
Type Solid 2 blades	PBW		
Twin Screw No	PIPA 0,0162		
ST1	ST3	ST5	
ST2	ST4	EDL	

COMMENTS	
Builder's declared displacement.	

MOVEABLE BALLAST			
N/A			

CENTERBOARD			
N/A			



ORC
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2016
Measurements
Datasheet

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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,130	0,60	1,09	2,03	2,87	20,37	20,45	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	0,42	0,80	1,66	2,56	3,53	11,22	19,19			05/09/2014	Dacron	



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ORC Club Certificate Appendix

BOAT

Name **PANIS** Certificate Number **001066**
 Sail Nr **GRE-1707** Issued On **1/6/2016**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1444,1	1167,5	1015,9	912,7	839,4	808,5	807,1
52°	913,4	747,7	652,3	591,5	559,1	544,8	541,0
60°	843,4	696,8	609,3	563,9	540,2	526,2	518,5
75°	787,5	653,6	578,6	544,9	524,5	506,8	482,8
90°	790,7	656,1	580,1	545,9	524,7	503,2	464,8
110°	870,5	705,1	607,8	558,1	532,1	511,0	470,0
120°	934,8	746,8	638,0	573,1	541,3	519,4	478,0
135°	1062,8	827,7	698,4	612,4	562,9	536,0	494,5
150°	1213,5	926,7	768,4	667,3	596,6	556,1	511,5
Run VMG	1386,2	1049,1	857,8	736,4	651,4	590,2	530,0

Selected Courses

Windward / Leeward	1415,1	1108,3	936,8	824,6	745,4	699,4	668,6
Circular Random	1141,6	899,7	763,9	681,1	628,5	594,6	556,9
Ocean for PCS	1410,5	1061,6	861,1	736,5	655,2	599,8	528,7
Non Spinnaker	1141,6	899,7	763,9	681,1	628,5	594,6	556,9

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	46,4°	45,3°	44,7°	44,6°	43,2°	42,9°	43,6°
Beat VMG	2,49	3,08	3,54	3,94	4,29	4,45	4,46
52°	3,94	4,81	5,52	6,09	6,44	6,61	6,65
60°	4,27	5,17	5,91	6,38	6,66	6,84	6,94
75°	4,57	5,51	6,22	6,61	6,86	7,10	7,46
90°	4,55	5,49	6,21	6,59	6,86	7,15	7,75
110°	4,14	5,11	5,92	6,45	6,77	7,05	7,66
120°	3,85	4,82	5,64	6,28	6,65	6,93	7,53
135°	3,39	4,35	5,15	5,88	6,40	6,72	7,28
150°	2,97	3,88	4,68	5,39	6,03	6,47	7,04
Run VMG	2,60	3,43	4,20	4,89	5,53	6,10	6,79
Gybe Angles	162,8°	166,9°	179,4°	179,6°	179,7°	179,8°	179,9°