



ORC
Offshore Racing Congress
World leader in rating technology

**2019
ORC Club
Certificate**

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

Certificate
Number **001166**
Issued On **29/7/2019**
ORC Ref **GRE01016206**
VPP Ver. **2019 1.01**
Valid until **28/2/2020**

Crew Weight

Default	524kg
Maximum	480kg
Minimum*	360kg

*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	720,1	0,8333
Double H.OSN	697,9	0,8597
Non Spin GPH	751,0	0,7989
Non Spin OSN	723,9	0,8288

Sails Limitations
Headsails **1** Spinnakers **3**

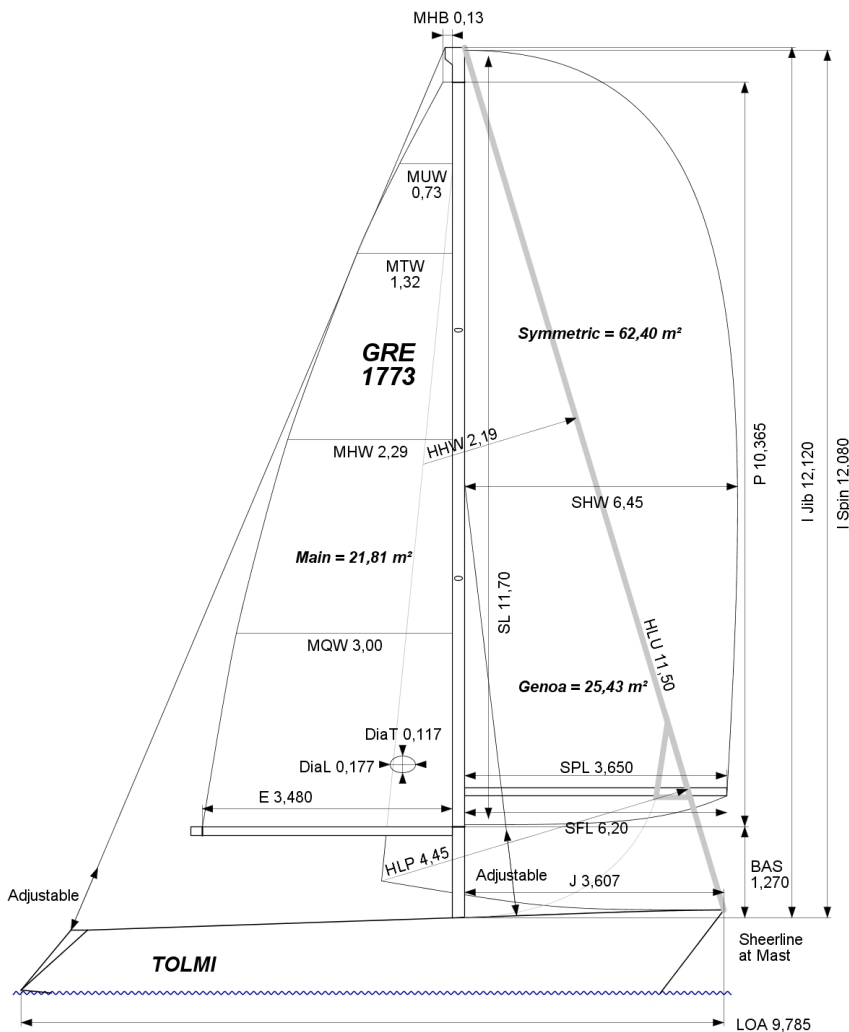
Spinnaker configuration
Symmetric: **Yes** **62,40**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = **7,477**

Stability (Estimated)
Limit Positive Stab.: **115,3°**
Stability Index: **116,2**

Owner
SARANTOPOULOS IOANNIS
METHONIS 3
24132 KALAMATA, HELLAS
IONE

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



BOAT		GPH		HULL			
Name	TOLMI	713,2	Data File	GR1773	LOA	9,785m	
Sail Nr	GRE-1773		Offset File	H107.BOF	MB	3,316m	
			Displacement	4,935kg	Draft	1,847m	
CLASS		IMS Division		Cruiser/Racer	Dynamic All.	0,488%	
Class	FIRST 32	Fwd Accom.	Yes	Construction	Solid		
Designer	BERRET	Fiber Rigging	No	Aramid Core	No		
Builder	BENETEAU	Crew Arm Ex		Carbon Rudder	No		
Series	01/1980			Light Stanchions	No		
Age Date	01/1983	IMSL	8,513m	VCGD	-0,051m	Sink	15,29kg/mm
Age Allowance	0,487%	RL	6,439m	VCGM	0,029m	WS	21,43m²
COMMENTS		LSM0	8,264m	Displacement/Length ratio 8,7441			
		Water Ballast	0	Trim Tab	No		
		BLR Index	0,0000				
PROPELLER		CENTERBOARD		N/A			
Installation	Shaft exposed	PRD	0,380				
Type	Folding 2 blades	PBW	0,080				
		PIPA	0,0014				
SCORING OPTIONS							
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD			
Time on Distance	690,3			766,5			
Time on Time	0,8691			0,8807			
Triple Number	Low	Medium	High	Low	Medium	High	
Time on Distance	829,4	629,5	551,9	1065,8	777,3	653,8	
Time on Time	0,8138	1,0723	1,2231	0,6333	0,8684	1,0324	

BOAT	
Name TOLMI	Sail Nr GRE-1773
File GR1773	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 11/04/2017		SG	
FFM 1,147	FF 1,147	SFFP 0,280	
FAM 0,875	FA 0,875	SAFP 8,855	
LCF from stem on CL / on sheer		5,408 / 5,657	
Maximum beam station from stem		5,910	
RM Measured		85,4kg·m	
RM Default		82,9kg·m	
Limit of positive stability / Stab.Index		115,3° / 116,2	
Freeboard at mast at 3,607		1,048	

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay Adjustable	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 10,365	E 3,480	MDT1 0,117	MW
IG 12,120	J 3,607	MDL1 0,177	GO
ISP 12,080	SFJ 0,000	MDT2	BD
BAS 1,270	SPL 3,650	MDL2	MWT
FSP -3,000	TPS	TL -3,000	MCG



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2019
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0,380		
Type Folding 2 blades	PBW 0,080		
Twin Screw No	PIPA 0,0014		
PSA	PHL	ST3	ESL
PSD	ST1	ST4	
PHD	ST2	ST5	

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COMMENTS

MOVABLE BALLAST
N/A

CENTERBOARD
N/A

SAILS INVENTORY																
MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	0,13	0,73	1,32	2,29	3,00	21,82	GALANI	08/05/2019	BANKS	Polyester						
1	0,15	0,66	1,14	2,01	2,71	19,91	TSAKAKOS	04/06/2016		Dacron						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,04	0,56	1,10	2,19	3,31	4,45	11,50	123%	25,44			GALANI	17/07/2019	BANKS	Polyest	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	11,70	11,70	11,70	6,45	6,20	62,40	TSAKAKOS	04/06/2016	KAKITSIS	Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				



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ORC Club Certificate Appendix

BOAT	
Name TOLMI	Certificate Number 001166
Sail Nr GRE-1773	Issued On 29/7/2019

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1236,8	1028,4	913,5	832,1	781,4	759,1	753,0
52°	806,7	685,1	610,5	571,6	552,0	540,9	534,8
60°	764,4	651,2	585,8	556,6	539,5	528,3	518,8
75°	736,8	626,2	569,7	544,6	528,5	515,3	495,9
90°	742,8	617,0	554,9	528,7	513,8	506,4	484,9
110°	731,4	604,0	548,0	521,5	500,4	481,0	456,8
120°	753,2	621,5	554,7	525,9	504,0	482,9	446,4
135°	825,9	677,1	584,1	542,8	518,9	497,9	456,7
150°	965,2	766,0	653,2	577,7	542,1	519,9	480,7
Run VMG	1114,5	883,7	751,9	658,5	591,8	551,2	508,1

Selected Courses							
Windward / Leeward	1175,7	956,1	832,7	745,3	686,6	655,2	630,6
Circular Random	991,9	797,7	691,7	628,8	589,5	564,2	534,6
Coastal / Long Distance	1169,5	897,6	747,5	650,3	597,5	563,1	512,5
Non Spinnaker	1059,3	845,6	727,5	656,4	611,5	582,3	548,4

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°	41,7°	40,9°	41,0°	39,5°	38,6°	38,5°
Beat VMG	2,91	3,50	3,94	4,33	4,61	4,74	4,78
52°	4,46	5,25	5,90	6,30	6,52	6,66	6,73
60°	4,71	5,53	6,14	6,47	6,67	6,81	6,94
75°	4,89	5,75	6,32	6,61	6,81	6,99	7,26
90°	4,85	5,83	6,49	6,81	7,01	7,11	7,42
110°	4,92	5,96	6,57	6,90	7,19	7,49	7,88
120°	4,78	5,79	6,49	6,85	7,14	7,45	8,06
135°	4,36	5,32	6,16	6,63	6,94	7,23	7,88
150°	3,73	4,70	5,51	6,23	6,64	6,92	7,49
Run VMG	3,23	4,07	4,79	5,47	6,08	6,53	7,09
Gybe Angles	147,4°	151,5°	153,6°	157,0°	180,0°	180,0°	180,0°