



World Leader in Rating Technology

2016 ORC Club Certificate

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

Certificate
 Number **001078**
 Issued On **2/6/2016**
 ORC Ref **GRE01006148**
 VPP Ver. **2016 1.01**
 Valid until **28/2/2017**

Crew Weight
 Declared **400kg**
 Default* **451kg**
 Non Manual Pwr **No**

Special Scoring

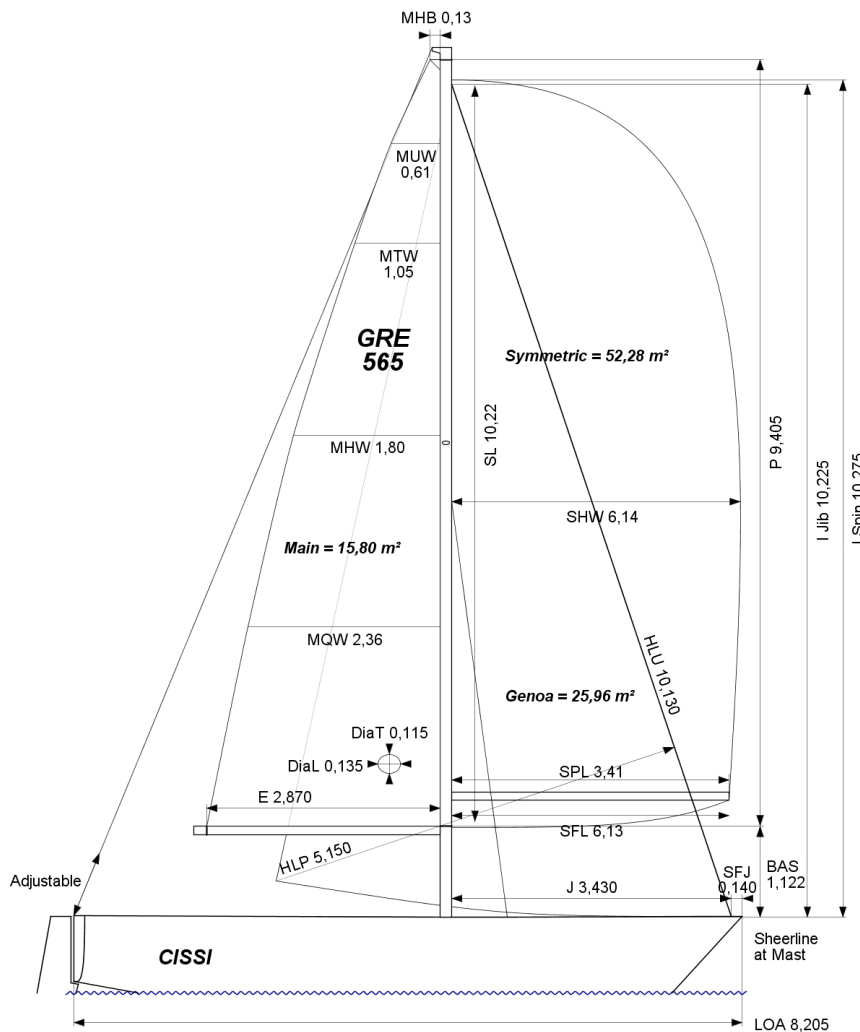
	ToD	ToT
Non Spin GPH	802,8	0,7474
Non Spin OSN	775,5	0,7737
N/S Perf. Line	6,6	0,486

Sails Limitations
 Headsails **5** Spinnakers **3**
Dacron Sails
Spinnaker configuration
 Symmetric: **Yes** **52,28**
 Asymmetric: **No**
 Flying H/S: **No**
 Spin. Pole: **Yes**

Class Division Length
 CDL = **6,269**

Stability
 LPS (Estimated): **115,2°**
 Stability Index: **116,2**
 OSR Category: **N/A**

Owner



BOAT		GPH		HULL		
Name	CISSI		773,5	Data File	GR565.dxt LOA 8,205m	
Sail Nr	GRE-565			Offset File	G1091.BOF MB 2,938m	
				Displacement	3.600kg Draft 1,569m	
CLASS		IMS Division Cruiser/Racer Dynamic All. 0,597%				
Class	Maxi 84			Fwd Accom.	Yes Construction Solid	
Designer	Pelle Petterson			Fiber Rigging	No Aramid Core No	
Builder	Maxi/Boerjesson			Crew Arm Ex	No Carbon Rudder No	
Series	09/1979				Light Stanchions No	
Age Date	09/1979			IMSL	7,266m VCGD 0,041m Sink 12,08kg/mm	
Age Allowance	0,488%			RL	5,271m VCGM 0,044m WS 18,01m²	
COMMENTS		LSM0 7,429m Displacement/Length ratio 8,7803				
Builder's declared displacement.		Water Ballast 0 Trim Tab No				
PROPELLER		CENTERBOARD				
Installation	Strut	PRD	0,380	N/A		
Type	Folding 2 blades	PBW	0,100			
		PIPA	0,0028			
SCORING OPTIONS						
	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	749,7			835,9		
Time On Time	0,8003			0,8075		
Performance Line	PLT	PLD		PLT	PLD	
	0,524	22,4		0,615	143,8	
Triple Number	Low	Medium	High	Low	Medium	High
	0,7467	0,9902	1,1339	0,5771	0,7966	0,9507

BOAT	
Name CISSI	Sail Nr GRE-565
File GR565.dxt	Data in meters/kilograms

RIG		
Forestay Tension Aft	Spreaders 1	
Inner Stay Fixed	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 9,405	E 2,870 MDT1 0,115 MW	
IG 10,225	J 3,430 MDL1 0,135 GO	
ISP 10,275	SFJ 0,140 MDT2	BD 0,110
BAS 1,122	SPL 3,410 MDL2	MWT
FSP -3,000	TPS	TL -3,000 MCG

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 01/01/2013		SG	
FFM	FF 0,942	SFFP	0,870
FAM	FA 0,946	SAFP	8,114
LCF from stem on CL / on sheer		4,780 / 4,979	
Maximum beam station from stem		4,861	
RM Measured		51,6kg·m	
RM Default		50,1kg·m	
Limit of positive stability / Stab.Index		115,2° / 116,2	
Freeboard at mast at 3,570		0,927	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD	0,380	
Type Folding 2 blades	PBW	0,100	
Twin Screw No	PIPA	0,0028	
ST1 0,041	ST3 0,200	ST5	0,215
ST2 0,200	ST4 0,096	EDL	1,340

COMMENTS	
Builder's declared displacement.	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



2016
Measurements
Datasheet

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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,130	0,61	1,05	1,80	2,36	15,80	16,02	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	10,22	10,22	10,22	6,14	6,13	52,28		SL · (SFL + 4·SHW) / 6	
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
0,04	0,67	1,30	2,53	3,82	5,15	10,13	25,96			07/02/2015	Dacron	
					3,40	7,82	13,53			28/05/2016	Dacron	



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ORC Club Certificate Appendix

BOAT	
Name	CISSI
Certificate Number	001078
Sail Nr	GRE-565
Issued On	2/6/2016

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1374,5	1138,4	1010,0	919,8	862,3	835,6	821,2
52°	883,7	745,0	659,1	612,1	589,3	578,8	572,6
60°	827,4	700,7	625,3	591,7	573,1	561,4	553,5
75°	782,1	662,4	602,3	576,2	558,5	543,5	522,6
90°	786,2	666,9	597,5	567,6	553,5	543,0	514,1
110°	794,4	655,5	591,2	562,1	537,9	514,8	493,9
120°	816,0	672,0	598,4	567,4	543,7	519,7	479,6
135°	906,5	735,5	629,5	584,5	559,1	536,2	492,7
150°	1047,8	829,6	702,7	620,1	582,6	559,3	516,6
Run VMG	1209,9	955,5	807,9	703,7	630,6	589,8	544,9

Selected Courses							
Windward / Leeward	1292,2	1047,0	908,9	811,7	746,5	712,7	683,1
Circular Random	1079,6	866,6	750,0	680,5	637,1	608,9	575,4
Ocean for PCS	1321,4	1016,3	842,2	734,4	664,0	615,4	550,2
Non Spinnaker	1130,9	903,3	777,8	702,4	654,8	623,8	587,0

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	44,8°	43,0°	42,9°	43,3°	42,0°	40,7°	40,4°
Beat VMG	2,62	3,16	3,56	3,91	4,18	4,31	4,38
52°	4,07	4,83	5,46	5,88	6,11	6,22	6,29
60°	4,35	5,14	5,76	6,08	6,28	6,41	6,50
75°	4,60	5,44	5,98	6,25	6,45	6,62	6,89
90°	4,58	5,40	6,03	6,34	6,50	6,63	7,00
110°	4,53	5,49	6,09	6,40	6,69	6,99	7,29
120°	4,41	5,36	6,02	6,34	6,62	6,93	7,51
135°	3,97	4,89	5,72	6,16	6,44	6,71	7,31
150°	3,44	4,34	5,12	5,81	6,18	6,44	6,97
Run VMG	2,98	3,77	4,46	5,12	5,71	6,10	6,61
Gybe Angles	148,4°	152,8°	154,3°	160,3°	180,0°	180,0°	180,0°