



2020
ORC Club
Certificate

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



Certificate
Number **01193**
Issued On **17/06/2020**
ORC Ref **03420000KT6**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	503kg
Maximum	360kg
Minimum*	270kg

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

Special Scoring

ToD	ToT
Non Spin GPH 699.6	0.8576
Non Spin OSN 678.7	0.8841

Sails Limitations

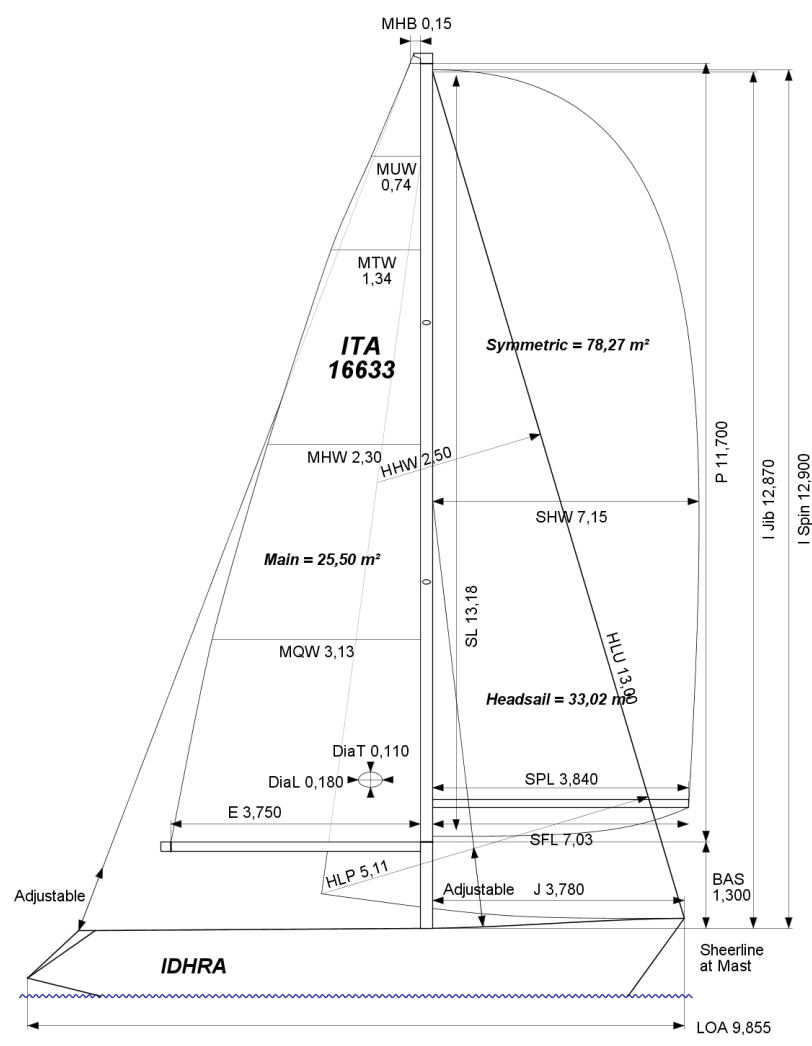
Headsails **5** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes** **78.27**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = **7.802**

Stability (Estimated)
Limit Positive Stab.: **113.4°**
Stability Index: **110.8**

Owner



BOAT Name IDHRA Sail Nr ITA-16633		GPH 667.3	HULL Data File I16633 LOA 9.855m Offset File BON3398.OFF MB 3.394m Displacement 4,115kg Draft 1.983m					
CLASS Class BONIN 33 Designer COSSUTTI-BONIN Builder SERENO BONIN & C. Series 01/1982 Age Date 12/1999 Age Allowance 0.487%			IMS Division Cruiser/Racer Dynamic All. 0.057% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No			IMSL 8.138m VCGD -0.428m Sink 14.65kg/mm RL 7.464m VCGM 0.062m WS 19.47m² LSM0 8.031m Displacement/Length ratio 7.9444		
COMMENTS			Water Ballast 0 Trim Tab No BLR Index 0.0000			CENTERBOARD N/A		
PROPELLER Installation Strut PRD 0.420 Type Feathering 3 blades PBW 0.120 PIPA 0.0027								
SCORING OPTIONS								
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD				
Time on Distance	649.1			720.3				
Time on Time	0.9243			0.9371				
Triple Number	Low	Medium	High	Low	Medium	High		
Time on Distance	756.0	593.3	536.0	967.7	722.9	636.0		
Time on Time	0.8928	1.1378	1.2594	0.6975	0.9337	1.0613		

BOAT	
Name IDHRA	Sail Nr ITA-16633
File I16633	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay Adjustable	Runners/Checkstays 0
Carbon Mast No	Jib Furler No
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 11.700	E 3.750 MDT1 0.110 MW 0.180
IG 12.870	J 3.780 MDL1 0.180 GO 0.200
ISP 12.900	SFJ 0.110 MDT2 0.110 BD 0.145
BAS 1.300	SPL 3.840 MDL2 0.180 MWT
FSD 0.035	TPS 0.000 TL 0.000 MCG

INCLINING TEST AND FREEBOARDS	
Inclining Test Club Estimated VCG	
Flotation date 01/04/1992	SG 1.0230
FFM 1.150	FF 1.159 SFFP 0.570
FAM 0.976	FA 0.982 SAFF 8.840
LCF from stem on CL / on sheer	5.451 / 5.689
Maximum beam station from stem	6.000
RM Measured	84.5kg-m
RM Default	82.0kg-m
Limit of positive stability / Stab.Index	113.4° / 110.8
Freeboard at mast at 3.780	1.020




2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Installation Strut	PRD 0.420
Type Feathering 3 blades	PBW 0.120
Twin Screw No	PIPA 0.0027
ST1 0.040	ST3 0.160 ST5 0.295
ST2 0.160	ST4 0.088 EDL 1.640

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.15	0.74	1.34	2.30	3.13	25.50		06/03/2017	Undersail	Carbon						
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.09	0.65	1.25	2.50	3.81	5.11	13.00	135%	33.02		No		06/03/2017	Undersails	Carbon	Genoa #1
2	0.08	0.59	1.12	2.05	2.96	3.73	12.58	99%	25.08	Y	No		06/03/2017	Kakitsis	Kevlar	Jib #3
3						3.41	12.46	90%	21.63		No		06/03/2017	Kakitsis	Kevlar	Jib #4
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	13.19	13.17	13.18	7.15	7.03	78.27		06/03/2017		Nylon						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2020

ORC Club Certificate Appendix

BOAT	
Name IDHRA	Certificate Number 01193
Sail Nr ITA-16633	Issued On 17/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1092.8	918.4	819.3	772.9	755.7	748.9	751.7
52°	725.6	617.4	566.3	545.9	537.6	533.8	533.1
60°	690.8	593.0	552.4	534.2	524.0	519.2	516.7
75°	665.2	576.9	542.3	523.3	509.1	498.2	488.7
90°	671.7	577.9	537.0	519.7	502.8	487.5	465.4
110°	678.8	567.7	526.7	501.5	480.7	469.1	451.9
120°	696.1	577.6	531.0	503.7	478.8	457.8	434.5
135°	762.0	623.4	551.3	519.4	493.8	469.2	428.1
150°	894.4	716.1	607.7	548.4	519.5	495.7	451.7
Run VMG	1032.7	827.3	700.7	619.3	562.6	529.4	483.3
Selected Courses							
Windward / Leeward	1062.8	872.9	760.0	696.1	659.1	639.1	617.5
Circular Random	909.6	738.5	647.8	596.1	565.0	545.4	521.9
Coastal / Long Distance	1059.8	821.5	688.9	614.7	575.5	545.6	499.6
Non Spinnaker	967.4	779.4	678.3	619.7	584.0	561.3	533.9

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	42.0°	40.5°	40.5°	39.4°	39.0°	38.6°	39.0°
Beat VMG	3.29	3.92	4.39	4.66	4.76	4.81	4.79
52°	4.96	5.83	6.36	6.59	6.70	6.74	6.75
60°	5.21	6.07	6.52	6.74	6.87	6.93	6.97
75°	5.41	6.24	6.64	6.88	7.07	7.23	7.37
90°	5.36	6.23	6.70	6.93	7.16	7.38	7.74
110°	5.30	6.34	6.84	7.18	7.49	7.67	7.97
120°	5.17	6.23	6.78	7.15	7.52	7.86	8.28
135°	4.72	5.78	6.53	6.93	7.29	7.67	8.41
150°	4.03	5.03	5.92	6.57	6.93	7.26	7.97
Run VMG	3.49	4.35	5.14	5.81	6.40	6.80	7.45
Gybe Angles	147.0°	151.0°	151.0°	159.5°	180.0°	180.0°	180.0°