



World Leader in Rating Technology

2017 ORC Club Certificate

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

Certificate
 Number **001197**
 Issued On **20/3/2017**
 ORC Ref **GRE01006883**
 VPP Ver. **2017 1.00**
 Valid until **28/2/2018**

Crew Weight
 Declared **827kg**
 Default* **827kg**
 Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	691,1	0,8682
Non Spin OSN	667,7	0,8986

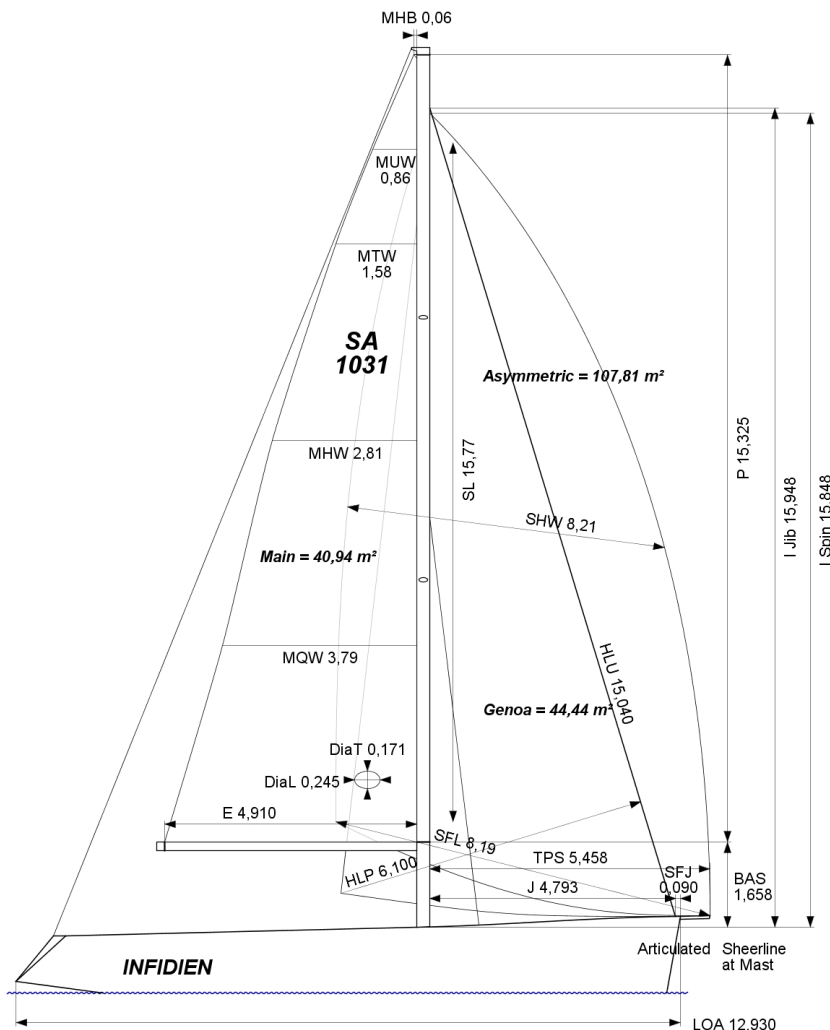
Sails Limitations
 Headsails **5** Spinnakers **3**
Dacron Sails

Spinnaker configuration
 Symmetric: **No**
 Asymmetric: **Yes 107,81**
 Flying H/S: **No**
 Spin. Pole: **No**

Class Division Length
 CDL = **9,116**

Stability (Estimated)
 Limit Positive Stab.: **112,4°**
 Stability Index: **118,7**

Owner



BOAT
Name INFIDIEN
Sail Nr SA-1031

GPH
655,0

HULL
Data File SA1031 LOA 12,930m
Offset File infidien.off MB 4,108m
Displacement 11.000kg Draft 1,945m

CLASS
Class LAVRANOS 43
Designer ANGELO LAVRANOS
Builder JAVOBS BROTHERS
Series 01/1999
Age Date 01/1999
Age Allowance 0,487%

IMS Division Cruiser/Racer Dynamic All. 0,504%
Fwd Accom. Yes Construction Solid
Fiber Rigging No Aramid Core No
Crew Arm Ex Carbon Rudder No
Light Stanchions No

IMSL 11,181m VCGD 0,087m Sink 28,08kg/mm
RL 7,051m VCGM 0,121m WS 38,74m²
LSM0 11,374m Displacement/Length ratio 7,4757

COMMENTS
Designer's declared displacement.

Water Ballast 0 Trim Tab No

PROPELLER
Installation Shaft non exposed PRD 0,400
Type Feathering 3 blades PIPA 0,0007

CENTERBOARD
N/A

	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	634,8			716,4		
Time On Time	0,9451			0,9422		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	780,3	574,4	490,5	1022,0	729,4	596,0
Time on Time	0,8650	1,1751	1,3761	0,6605	0,9254	1,1326

BOAT	
Name INFIDIEN	Sail Nr SA-1031
File SA1031	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 21/01/2017		SG	
FFM	FF 1,479	SFFP	0,450
FAM	FA 1,108	SAFP	11,969
LCF from stem on CL / on sheer		6,392 / 6,641	
Maximum beam station from stem		7,350	
RM Measured		266,5kg·m	
RM Default		258,7kg·m	
Limit of positive stability / Stab.Index		112,4° / 118,7	
Freeboard at mast at 4,883		1,282	

RIG			
Forestay Tension Fixed	Spreaders 2		
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 Yes			
P 15,325	E 4,910	MDT1 0,171	MW
IG 15,948	J 4,793	MDL1 0,245	GO
ISP 15,848	SFJ 0,090	MDT2	BD 0,168
BAS 1,658	SPL 0,000	MDL2	MWT
FSP 0,070	TPS 5,458	TL -3,000	MCG



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Measurements Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation	Shaft non exposed	PRD	0,400
Type	Feathering 3 blades	PBW	
Twin Screw	No	PIPA	0,0007
PSA	PHD	ESL	
PSD	PHL		

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COMMENTS	
Designer's declared displacement.	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0,060	0,86	1,58	2,81	3,79	40,94	KALATZIS	21/01/2017	ROLLY	Dacron						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,06	0,74	1,39	2,85	4,45	6,10	15,04	127%	44,45			KALATZIS	21/01/2017	BARACUDA	Dacron	Furling @ forestay
2	0,05	0,29	0,53	1,13	1,84	2,64	10,77	55%	13,16			KALATZIS	21/01/2017	NORTH	Dacron	Furling @ inner stay
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	16,54	14,99	15,77	8,21	8,19	107,81	asym	KALATZIS	20/02/2017		Nylon					



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ORC Club Certificate Appendix

BOAT	
Name	INFIDIEN
Sail Nr	SA-1031
Certificate Number	001197
Issued On	20/3/2017

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1221,8	994,2	873,2	795,2	733,8	701,1	683,0
52°	776,8	642,4	566,2	514,7	485,9	471,7	463,6
60°	719,7	601,6	529,7	489,5	469,0	457,0	447,5
75°	674,9	567,4	502,4	472,7	456,2	443,8	425,5
90°	674,5	554,2	485,4	456,3	441,4	434,3	418,2
110°	664,2	543,9	479,8	453,0	434,4	416,6	392,0
120°	685,4	561,3	489,2	458,1	439,7	423,1	389,1
135°	764,6	619,5	531,6	479,9	454,9	437,2	403,2
150°	910,0	711,3	600,5	527,3	480,2	456,5	423,8
Run VMG	1050,8	821,3	692,1	605,0	542,5	495,4	448,1

Selected Courses							
Windward / Leeward	1136,3	907,8	782,7	700,1	638,1	598,3	565,5
Circular Random	928,5	739,3	634,4	570,7	530,1	503,3	472,2
Ocean for PCS	1145,8	872,6	715,5	617,3	552,6	507,9	449,6
Non Spinnaker	992,6	785,0	668,6	597,1	551,0	520,5	484,9

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	45,7°	44,2°	43,6°	44,1°	44,0°	42,7°	42,6°
Beat VMG	2,95	3,62	4,12	4,53	4,91	5,13	5,27
52°	4,63	5,60	6,36	6,99	7,41	7,63	7,77
60°	5,00	5,98	6,80	7,35	7,68	7,88	8,04
75°	5,33	6,35	7,17	7,62	7,89	8,11	8,46
90°	5,34	6,50	7,42	7,89	8,16	8,29	8,61
110°	5,42	6,62	7,50	7,95	8,29	8,64	9,18
120°	5,25	6,41	7,36	7,86	8,19	8,51	9,25
135°	4,71	5,81	6,77	7,50	7,91	8,23	8,93
150°	3,96	5,06	6,00	6,83	7,50	7,89	8,50
Run VMG	3,43	4,38	5,20	5,95	6,64	7,27	8,03
Gybe Angles	146,0°	150,0°	152,5°	153,7°	160,5°	180,0°	180,0°