

BOAT Name Irony Sail Nr ROU-409	GPH 600.5	HULL Length Overall 11.924m Maximum Beam 3.770m Displacement 7,176kg Draft 2.383m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.149% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class First 40.7 Designer Farr Builder Benneteau Series 01/2006 Age 12/2006 Age Allowance 0.422% Offset File F407NK10.off - 14/04/2010 15:05:00 Measurement by - 21/04/2010		IMSL 10.636m VCGD -0.164m Sink 22.31kg/mm RL 9.560m VCGM 0.079m WS 29.97m² LSM0 10.514m Displacement/Length ratio 6.1742



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	582.7			649.4		
Time on Time	1.0297			1.0395		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	692.0	530.8	472.0	893.8	653.1	562.8
Time on Time	0.9755	1.2717	1.4301	0.7552	1.0336	1.1994

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1008.6	833.9	732.1	682.9	665.6	658.3	642.1
52°	661.8	557.6	502.8	481.5	473.8	470.2	464.6
60°	626.0	532.1	489.1	470.5	461.5	457.5	453.3
75°	599.6	514.3	479.3	460.6	447.3	438.0	430.5
90°	606.9	515.1	474.0	457.6	441.8	426.6	405.3
110°	618.0	510.1	467.6	443.8	423.3	410.3	391.4
120°	637.0	522.1	473.2	447.7	424.4	402.8	374.5
135°	706.2	572.1	498.1	464.8	441.9	418.9	375.6
150°	836.6	664.1	561.1	497.5	466.3	444.7	402.6
Run VMG	966.0	766.8	647.8	569.0	516.3	478.3	434.8

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Number **068/19**
ORC Ref **ROU10026791**
Issued On **07/10/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default 739kg
Maximum **880kg**
Minimum* **660kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	610.1	0.9834
Double H.OSN	593.9	1.0103
Non Spin GPH	631.3	0.9504
Non Spin OSN	612.0	0.9804

Selected Courses							
Windward / Leeward	987.3	800.4	689.9	626.0	591.0	568.3	538.4
Circular Random	829.5	668.7	582.3	532.3	501.5	481.1	454.6
Coastal / Long Distance	985.2	752.0	622.2	548.3	511.2	482.2	436.0
Non Spinnaker	885.1	707.9	611.4	554.6	519.4	496.4	467.1

Sails Limitations

Headsails	Spinnakers
6	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	42.5°	40.9°	40.1°	38.8°	38.0°	38.1°	37.6°
Beat VMG	3.57	4.32	4.92	5.27	5.41	5.47	5.61
52°	5.44	6.46	7.16	7.48	7.60	7.66	7.75
60°	5.75	6.77	7.36	7.65	7.80	7.87	7.94
75°	6.00	7.00	7.51	7.82	8.05	8.22	8.36
90°	5.93	6.99	7.60	7.87	8.15	8.44	8.88
110°	5.83	7.06	7.70	8.11	8.50	8.77	9.20
120°	5.65	6.90	7.61	8.04	8.48	8.94	9.61
135°	5.10	6.29	7.23	7.75	8.15	8.59	9.58
150°	4.30	5.42	6.42	7.24	7.72	8.10	8.94
Run VMG	3.73	4.69	5.56	6.33	6.97	7.53	8.28
Gybe Angles	144.4°	148.9°	150.7°	155.5°	170.3°	180.0°	180.0°

Class Division Length
CDL = **10.099**

Storm Sails Areas
Heavy Weather Jib **32.80**
Storm Jib (JL=10.14) **12.15**
Storm Trysail **13.70**

Owner

BOAT	
Name Irony	Sail Nr ROU-409
File ROU409	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay None Fitted	Runners 0
Carbon Mast Yes	Jumper Struts None
Taper Hollows No	Jib Furler No
Fiber Rigging Yes	Main Furler No
Lenticular Rigging No	Without Backstay No
Articulated Bowsprit No	
P 14.490	E 5.399 MDT1 0.123 MW 0.242
IG 15.480	J 4.410 MDL1 0.242 GO 0.272
ISP 15.650	SFJ MDT2 0.112 BD 0.249
BAS 1.710	SPL 4.370 MDL2 0.175 MWT 156.00
FSP 0.082	TPS TL 0.900 MCG 5.248

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 09/05/2019	SG 1.0100	
FFM 1.362	FF 1.367	SFFP 0.292
FAM 1.105	FA 1.112	SAFP 11.313
W1 99.0	PD1 562.0	WD 12.070
W2 99.0	PD2 559.7	GSA 1.0
W3 99.0	PD3 559.9	RSA 1.0
W4 99.0	PD4 559.5	PLM 9000.0
LCF from stem on CL / on sheer		6.508 / 6.748
Maximum beam station from stem		7.502
RM Measured		168.0kg-m
RM Default		178.3kg-m
Limit of positive stability / Stab.Index		115.9° / 118.6
Freeboard at mast at 4.410		1.221



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.410	
Type Folding 2 blades	PBW 0.112	
Twin Screw No	PIPA 0.0035	
ST1 0.042	ST3 0.180	ST5 0.295
ST2 0.180	ST4 0.112	EDL 2.265

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.610	1.37	2.19	3.56	4.56	48.18	49.42	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	102.79		SL · (SFL + 4·SHW) / 6	
	15.52	15.52	15.52	7.93	8.02				
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
0.13	0.78	1.44	2.52	3.49	4.49	15.30	37.03	Y		28/06/2019	Carbon	
0.13	0.76	1.40	2.46	3.45	4.48	15.26	36.43	Y		28/06/2019	Carbon	
0.07	0.52	0.98	1.96	3.00	4.18	12.90	26.10			23/05/2015	Unknow	j4
					3.42	13.81	24.05			04/05/2012	Unknow	staysail

MEASUREMENT INVENTORY				
Measurer	Date 09/05/2019			
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
A	Engine	YANMAR	3 JH 4 E	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

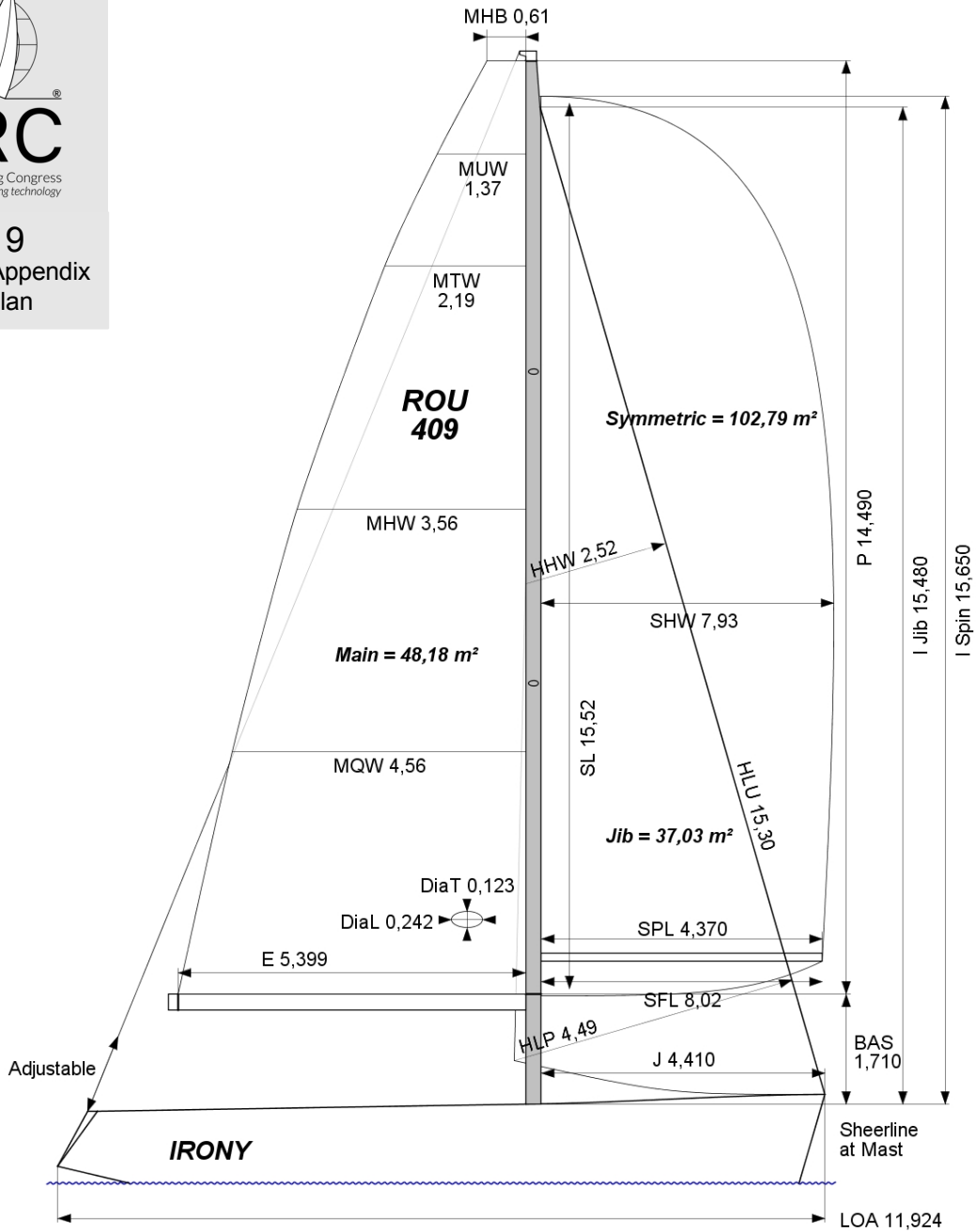
MEASUREMENT INVENTORY									
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>	
A	Tank	WATER	PVC	150.0	5.50		0-0	EMPTY	
B	Tank	WATER	PVC	150.0	5.50		0-0	EMPTY	
C	Tank	DIESEL	PVC	135.0	9.20		20-0	LITRI	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>					
A	Battery	25.0	7.22	90 Ah					
B	Battery	25.0	7.22	90 Ah					
C	Battery	18.0	7.15	70 Ah					



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Sail Plan



SAILS INVENTORY

MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
MS1	0.61	1.37	2.19	3.56	4.56	48.18		28/06/2019	NORTH	Carbon						
2	0.43	1.29	2.16	3.55	4.50	47.54		10/10/2010	North Sails	Kevlar	offshore					
HEADSAILS (4)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
JLM	0.13	0.78	1.44	2.52	3.49	4.49	15.30	102%	37.03	Y			28/06/2019	NORTH	Carbon	
JMH	0.13	0.76	1.40	2.46	3.45	4.48	15.26	102%	36.43	Y			28/06/2019	NORTH	Carbon	
j4	0.07	0.52	0.98	1.96	3.00	4.18	12.90	95%	26.10				23/05/2015		Unknow	j4
st						3.42	13.81	78%	24.05				04/05/2012		Unknow	staysail
SYMMETRIC SPINNAKERS (4)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	15.52	15.52	15.52	7.93	8.02	102.80		11/04/2011	North Sails	Nylon	S2					
S1.5	15.47	15.47	15.47	7.90	7.86	101.75		23/05/2019	North Sails	Nylon	S1.5					
1	15.44	15.44	15.44	7.82	7.98	101.03		21/04/2010	North sails	Nylon	S1					
3	15.37	15.37	15.37	7.71	7.78	98.94		10/04/2007	North sails	Nylon	S3					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				