

BOAT
Name BLUERAY 2
Sail Nr ITA-7000

GPH
574,8

HULL			
Length Overall	13,352 m		
Maximum Beam	3,968 m		
Displacement	9.919 kg		
Draft	2,639 m		
IMS Reg. Division	Cruiser/Racer		
Dynamic Allowance	0,019%		
Fwd Accommodation	Yes		
Hull Construction	Solid		
Carbon Rudder	No		
Crew Arm Extension			
IMS L	12,011	VCGD	0,136
Sink	27,75 kg/mm	VCGM	0,159
		Wetted Area	36,83 m²

GENERAL
Class FIRST 44.7
Designer FARR
Builder BENETEAU
Series 11/2003
Age 04/2006
Age Allowance 0,585%
Offset File F222.OFF - 19/04/2004 19.38.58
Measurement by PARRA-BASILE - 27/08/2007



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SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	553,7			628,8		
Time On Time	1,0836			1,0735		
Performance Line	PLT	PLD		PLT	PLD	
	0,908	98,4		0,891	191,4	
Triple Number	Low	Medium	High	Low	Medium	High
	0,9544	1,2565	1,5192	0,7758	1,0640	1,2466

TIME ALLOWANCES	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity							
Beat VMG	953,1	780,6	697,9	657,5	633,8	621,4	614,3
52°	616,9	514,1	474,2	456,4	446,2	439,9	433,0
60°	576,6	492,4	455,1	440,1	431,1	425,2	418,1
75°	544,5	476,9	442,2	421,4	411,3	405,0	398,0
90°	549,5	481,3	445,5	423,4	405,1	391,2	380,3
110°	593,6	492,4	446,3	418,4	396,4	384,0	369,9
120°	618,2	507,0	456,9	427,1	404,1	383,9	356,2
135°	702,7	562,1	491,2	451,8	425,9	404,6	367,0
150°	846,4	666,3	557,3	494,4	455,9	430,1	390,9
Run VMG	977,4	769,4	643,5	563,1	508,7	469,6	420,9

Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	965,2	775,0	670,7	610,3	571,2	545,5	517,6
Circular Random	796,4	641,2	557,5	508,5	478,1	458,2	433,9
Ocean for PCS	850,4	670,2	569,6	508,0	467,5	438,9	399,6
Non Spinnaker	837,0	669,5	578,1	523,7	489,6	467,1	439,4

Velocity Prediction in Knots for True Wind Speeds	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity							
Beat Angles	44,0°	43,7°	40,6°	38,6°	37,5°	37,3°	37,8°
Beat VMG	3,78	4,61	5,16	5,48	5,68	5,79	5,86
52°	5,84	7,00	7,59	7,89	8,07	8,18	8,31
60°	6,24	7,31	7,91	8,18	8,35	8,47	8,61
75°	6,61	7,55	8,14	8,54	8,75	8,89	9,05
90°	6,55	7,48	8,08	8,50	8,89	9,20	9,47
110°	6,06	7,31	8,07	8,60	9,08	9,37	9,73
120°	5,82	7,10	7,88	8,43	8,91	9,38	10,11
135°	5,12	6,41	7,33	7,97	8,45	8,90	9,81
150°	4,25	5,40	6,46	7,28	7,90	8,37	9,21
Run VMG	3,68	4,68	5,59	6,39	7,08	7,67	8,55
Gybe Angles	141,1°	146,3°	149,1°	159,5°	167,1°	171,8°	174,9°

Rating Office
FEDERAZIONE ITALIANA
VELA
Distr.:UVAI www.uvai.it
Tel.068841273
Fax.068841293
E-mail uvairoma@tin.it



Certificate
Number **70001**
ORC Ref **ITA00010605**
Issued On **03/07/2012**
VPP Ver. **2012 1.01**
Valid until **31/12/2012**

Crew Weight
Declared **700 kg**
Default* **900 kg**
Non Manual Power **No**

Special Scoring
ToD ToT
Double H.GPH **577,0 1.0398**
Double H.OSN **556,1 1.0789**
Non Spin GPH **596,6 1.0056**
Non Spin OSN **576,1 1.0414**
N/S Perf. Line **71,1 0,829**

Sails Limitations
Genoas **4** Jibs **3** Spinnakers **4**
Spinnaker configuration
Symmetric

Storm Sails Areas
Heavy Weather Jib **41,00**
Storm Jib (JL=11,33) **15,18**
Storm Trysail **18,42**

Owner
SIELI GIOVANNI PAOLO
VIA MAZZINI 71
91029 PARTANNA (TP)
LNI MAZARA DEL VALLO

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

Signature

BOAT		
Name BLUERAY 2	Sail Nr ITA-7000	
File I7000.dxt	Data in meters/kilograms	

RIG				
Forestay Tension Aft		Spreaders 3		
Inner Stay None Fitted		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 17,020	E 6,185	MDT1 0,140	TL 1,150	
IG 17,300	J 4,825	MDL1 0,240	MWT	
ISP 17,425	SFJ	MDT2 0,140	MCG	
SPS	SPL 4,660	MDL2 0,180	CPW	
BAS 1,830	TPS	MW 0,240	BD 0,185	
BAL	FSP 0,100	GO 0,275	BWT	

MIZZEN RIG AND SAILS				
N/A				

COMMENTS				

INCLINING TEST AND FREEBOARDS				
Inclining Test Current Inclining				
Flotation date 22/04/2006			SG 1,0250	
FFM 1,520	FF 1,520	SFFP 0,322		
FAM 1,155	FA 1,155	SAFP 12,761		
W1 28,000	PD1 102,0	WD 12,700		
W2 56,000	PD2 205,0	GSA 7,1		
W3 84,000	PD3 308,0	RSA 4050,0		
W4 112,00	PD4 410,0	PLM 3910,0		
Max. beam station / LCF from stem			8,675 / 7,376	
RM Measured / Default			236,9 / 266,9	
Limit of positive stability			112,1°	
Stability Index			118,3	
Freeboard at mast at 4,825			1,335	

PROPELLER				
Installation Strut		PRD 0,490		
Type Folding		PBW 0,130		
Twin Screw No		PIPA 0,0031		
ST1 0,058	ST3 0,195	ST5 0,280		
ST2 0,195	ST4 0,094	EDL 2,650		

WATER BALLAST				
N/A				

CENTERBOARD				
N/A				



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VPP Ver. **2012 1.01**

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SAILS (Maximum Areas)									
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Area (r)	Formula
	0,200	1,29	2,32	3,95	5,12	26,40	62,11	63,42	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG		
	0,00	0,86	1,72	3,43	5,14	17,44	6,86	59,82	$0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$
Symmetric	SL	SMG	SF						
	17,13	8,64	8,56					123,11	$SL \cdot (SF + 4 \cdot SMG) / 6$
Asymmetric									
Not Available									
Code Zero									
Not Available									

MEASUREMENT INVENTORY				
Measurer PARRA 110				
Date 22/04/2006				
Comment				
Id	Item	Weight	Distance	VCG Description
A	Anchor	20,0	8,03	
A	Tools	12,0	8,83	
Id	Item	Maker	Model	
A	Engine	YANMAR		
Id	Item	Weight	Description	
A	Deck Gear	15,0		

MEASUREMENT INVENTORY									
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description	
A	Tank	GASOLIO	PVC	120,0	10,33			10,0	LITRI
B	Tank	ACQUA	INOX	150,0	10,33			0,0	VUOTO
C	Tank	ACQUA	INOX	150,0	3,33			0,0	VUOTO
Id	Item	Weight	Distance	VCG	Description				
A	Battery	34,0	9,03		2 BATTERIE				
B	Battery	34,0	9,23		2 BATTERIE				