

BOAT Name ARROUTADO Sail Nr ITA-1870	GPH 563,6	HULL Length Overall 12,450m Maximum Beam 3,226m Displacement 6.605kg Draft 2,547m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,026% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL Class GRAND SOLEIL 42 R Designer BOTIN-CARKEEK Builder DEL PARDO Series 01/2003 Age 06/2003 Age Allowance 0,487% Offset File GS42R-ITA1870.off - 08/05/2018 Measurement by - 17/06/2011		IMSL 11,013m VCGD -0,140m Sink 23,36kg/mm RL 10,791m VCGM -0,156m WS 30,70m² LSM0 10,584m Displacement/Length ratio 5,5709



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	547,5			611,1		
Time on Time	1,0958			1,1046		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	645,0	499,3	445,4	834,2	613,4	533,3
Time on Time	1,0465	1,3520	1,5154	0,8092	1,1004	1,2656

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	932,9	761,3	671,9	642,8	630,2	621,1	608,9
52°	613,4	511,1	469,9	458,3	453,2	450,4	442,3
60°	580,7	492,2	458,9	446,6	441,0	437,8	428,8
75°	556,1	480,7	451,1	433,5	422,6	416,8	410,7
90°	562,0	482,3	451,3	431,3	413,0	398,2	383,4
110°	577,6	479,0	441,7	417,7	402,6	390,2	369,3
120°	595,5	489,1	447,4	420,0	393,7	374,0	349,1
135°	664,6	534,7	469,5	439,5	413,7	387,8	334,2
150°	792,1	630,4	530,6	471,5	442,6	418,5	370,6
Run VMG	914,7	727,9	612,7	539,0	492,1	456,6	409,7

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Crew Weight
Default **746kg**
Maximum **871kg**
Minimum* **653kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	573,1	1,0470
Double H.OSN	558,5	1,0743
Non Spin GPH	595,2	1,0081
Non Spin OSN	578,5	1,0372

Selected Courses							
Windward / Leeward	923,8	744,6	642,3	590,9	561,2	538,8	509,3
Circular Random	775,7	626,2	546,7	501,0	472,8	453,7	427,5
Coastal / Long Distance	922,9	700,4	581,2	517,5	483,1	454,7	410,1
Non Spinnaker	833,1	666,6	576,5	523,8	491,0	469,2	440,3

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°	41,1°	39,2°	38,0°	37,4°	37,1°	36,8°
Beat VMG	3,86	4,73	5,36	5,60	5,71	5,80	5,91
52°	5,87	7,04	7,66	7,86	7,94	7,99	8,14
60°	6,20	7,31	7,85	8,06	8,16	8,22	8,40
75°	6,47	7,49	7,98	8,30	8,52	8,64	8,76
90°	6,41	7,46	7,98	8,35	8,72	9,04	9,39
110°	6,23	7,52	8,15	8,62	8,94	9,23	9,75
120°	6,05	7,36	8,05	8,57	9,14	9,63	10,31
135°	5,42	6,73	7,67	8,19	8,70	9,28	10,77
150°	4,54	5,71	6,78	7,63	8,13	8,60	9,71
Run VMG	3,94	4,95	5,88	6,68	7,32	7,89	8,79
Gybe Angles	141,8°	146,1°	148,9°	155,2°	167,5°	180,0°	180,0°

Class Division Length
CDL = **10,903**

Storm Sails Areas

Heavy Weather Jib	32,73
Storm Jib (JL=10,13)	12,13
Storm Trysail	15,31

Owner

BOAT	
Name ARROUTADO	Sail Nr ITA-1870
File ITA1870	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Boom Inclining	LCFD	
Flotation date 30/04/2018	SG 1,0270	
FFM 1,362	FF 1,361	SFFP 0,265
FAM 1,080	FA 1,081	SAFP 11,812
W1 115,0	PD1 283,3	WD 6,350
W2 115,0	PD2 278,8	GSA 1,0
W3 115,0	PD3 282,4	RSA 1,0
W4 115,0	PD4 279,2	PLM 9000,0
LCF from stem on CL / on sheer	6,765 / 6,936	
Maximum beam station from stem	7,842	
RM Measured	204,7kg-m	
RM Default	193,0kg-m	
Limit of positive stability / Stab.Index	127,0° / 134,0	
Freeboard at mast at 4,657	1,197	



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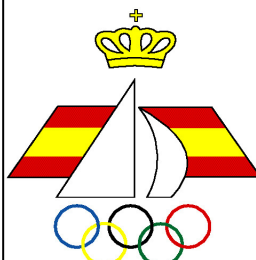
RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast Yes	Jumper Struts None		
Taper Hollows No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 16,200	E 5,400	MDT1 0,101	MW 0,204
IG 15,550	J 4,550	MDL1 0,204	GO 0,210
ISP 16,270	SFJ 0,107	MDT2 0,081	BD 0,290
BAS 1,700	SPL 4,850	MDL2 0,108	MWT 221,00
FSP 0,072	TPS	TL 2,300	MCG 6,000

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0,422	
Type Folding 2 blades	PBW	
Twin Screw No	PIPA 0,0036	
ST1 0,047	ST3 0,175	ST5 0,272
ST2 0,175	ST4 0,111	EDL 0,970

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COMMENTS

MOVABLE BALLAST
N/A

CENTERBOARD
N/A

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area Area (r) Formula
	0,250	1,29	2,33	3,76	4,74	55,30 56,68 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	SLU	SLE	SL	SHW	SFL	Area Formula
	16,75	16,75	16,75	8,55	8,27	118,56 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
0,10	0,73	1,37	2,52	3,63	4,89	15,62	39,01	Y	N	23/03/2016	Carbon	
0,11	0,71	1,35	2,49	3,58	4,83	15,50	38,20	Y	N	08/05/2017	Carbon	

MEASUREMENT INVENTORY				
Measurer ESP 100				
Date 30/04/2018				
Comment con la botavara				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
A	Engine	YANMAR	40 HP	
Id	Item	Weight Description		

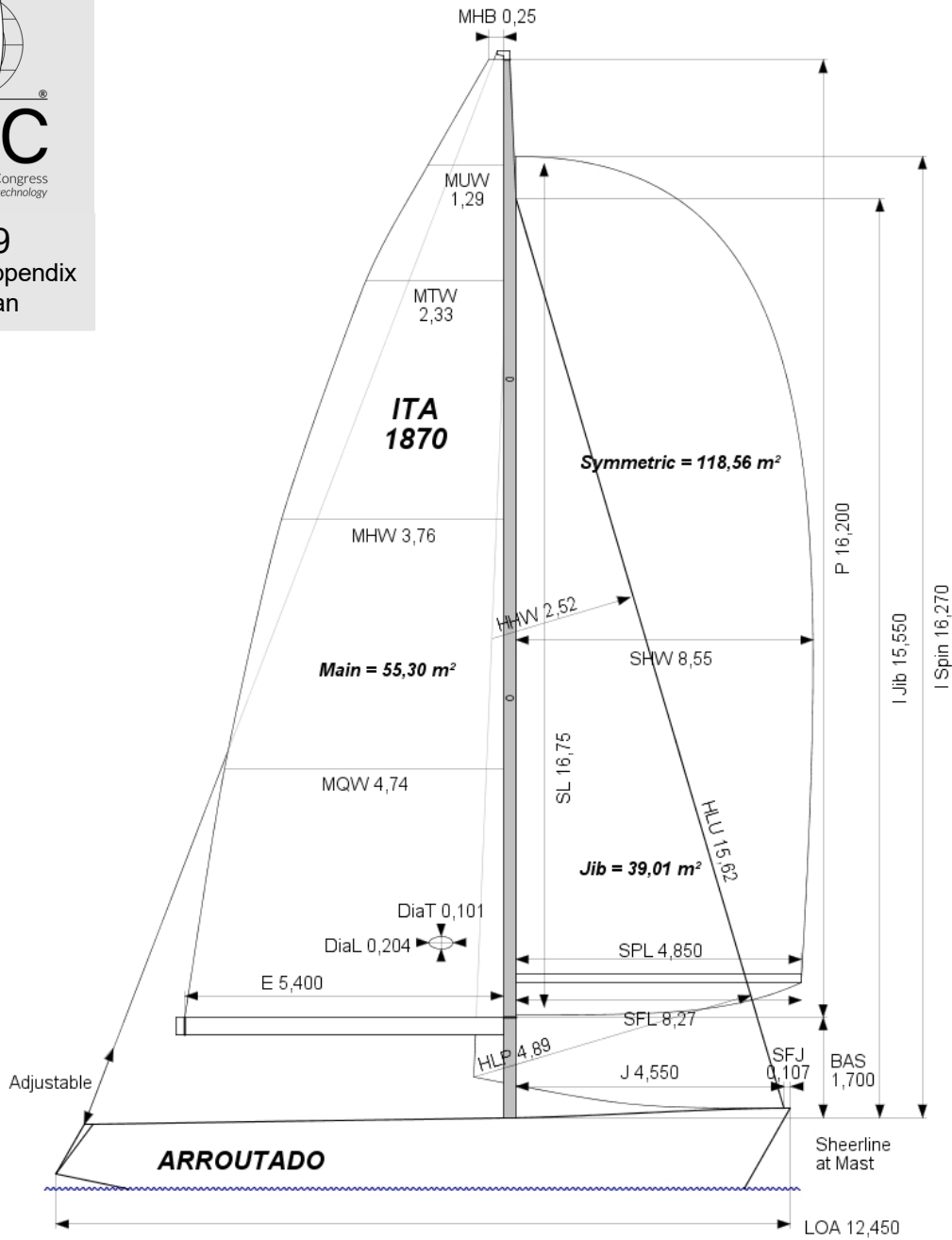
MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
3	Tank	GASOIL	PVC	100,0	8,50		15,0
2	Tank	AGUA	PVC	100,0	5,50		0,0
1	Tank	agua	PVC	100,0	5,50		0,0
Id	Item	Weight	Distance	VCG Description			
001	Ballast	1131,9	6,00	ver plano abordo			
A	Battery	0,0	7,16	0,00 3 DA 60 AH			



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Sail Plan



SAILS INVENTORY																
MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3	0,25	1,29	2,33	3,76	4,74	55,31		28/08/2018		Carbon						
c	0,25	1,36	2,31	3,74	4,72	55,23		09/08/2018		Unknown						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
002	0,10	0,73	1,37	2,52	3,63	4,89	15,62	107%	39,01	Y	N		23/03/2016		Carbon	
003	0,11	0,71	1,35	2,49	3,58	4,83	15,50	106%	38,20	Y	N		08/05/2017		Carbon	
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3	16,75	16,75	16,75	8,55	8,27	118,57		28/08/2018		Unknown						
2	16,22	16,22	16,22	8,58	8,27	115,14		14/06/2018		Unknown						
S4	16,16	16,16	16,16	8,60	8,33	115,09		14/06/2018		Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				