

BOAT	GPH	HULL
Name ARIA Sail Nr ITA-18044	554.4	Length Overall 13.600m Maximum Beam 4.184m Displacement 10,447kg Draft 2.477m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.053% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL		IMSL 12.497m VCGD -0.284m Sink 30.13kg/mm
Class SOLARIS 44 MOD. Designer JAVIER SOTO ACEBAL Builder SERIGI Series 05/2013 Age 05/2013 Age Allowance 0.130% Offset File I18044.OFF - 07/06/2013 09:13:20 Measurement by PARR-ZIZZ-PATACCA - 24/06/2015		RL 10.369m VCGM 0.142m WS 39.33m²
		LSM0 12.244m Displacement/Length ratio 5.6914



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ORC International
Certificate

Rating Office

Offshore
Racing
Congress



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	540.6			606.8		
Time On Time	1.1098			1.1124		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	636.6	490.8	437.2	830.5	610.5	526.6
Time on Time	1.0603	1.3754	1.5439	0.8128	1.1057	1.2817

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	959.4	790.2	696.1	655.8	636.1	622.2	608.4
52°	620.2	516.8	464.4	447.9	440.6	436.6	428.0
60°	580.2	487.3	447.1	433.3	427.1	423.6	415.6
75°	546.4	466.6	434.8	418.6	408.9	403.4	398.1
90°	546.1	463.2	433.5	415.5	399.9	386.5	373.1
110°	554.8	459.2	423.8	407.0	395.5	384.0	365.7
120°	571.0	469.3	429.3	405.7	384.8	371.4	350.2
135°	636.8	514.4	450.3	421.8	399.7	376.3	331.6
150°	755.7	605.7	509.3	452.7	424.5	403.8	361.4
Run VMG	872.6	699.4	588.1	517.6	474.4	440.1	397.8
Selected Courses							
Windward / Leeward	916.0	744.8	642.1	586.7	555.3	531.1	503.1
Circular Random	764.2	616.6	537.8	492.2	464.2	445.5	420.9
Ocean for PCS	940.2	726.0	605.1	531.3	483.4	450.0	403.4
Non Spinnaker	824.4	659.3	569.3	516.2	483.1	461.1	433.4

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	44.0°	42.9°	42.2°	40.7°	39.7°	39.0°	39.5°
Beat VMG	3.75	4.56	5.17	5.49	5.66	5.79	5.92
52°	5.80	6.97	7.75	8.04	8.17	8.25	8.41
60°	6.21	7.39	8.05	8.31	8.43	8.50	8.66
75°	6.59	7.72	8.28	8.60	8.80	8.92	9.04
90°	6.59	7.77	8.30	8.67	9.00	9.31	9.65
110°	6.49	7.84	8.49	8.85	9.10	9.37	9.85
120°	6.30	7.67	8.39	8.87	9.36	9.69	10.28
135°	5.65	7.00	7.99	8.54	9.01	9.57	10.86
150°	4.76	5.94	7.07	7.95	8.48	8.91	9.96
Run VMG	4.13	5.15	6.12	6.96	7.59	8.18	9.05
Gybe Angles	141.9°	146.8°	147.9°	154.5°	162.8°	180.0°	180.0°

Certificate

Number **180441**
ORC Ref **ITA00022464**
Issued On **22/05/2017**
VPP Ver. **2017 1.00**
Valid until **31/12/2017**

Crew Weight

Declared **800kg**
Default* **919kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Double H.GPH **558.1 1.0751**
Double H.OSN **545.0 1.1010**
Non Spin GPH **587.8 1.0208**
Non Spin OSN **573.2 1.0468**

Sails Limitations	
Headsails	Spinnakers
6	4

Class Division Length
CDL = 11.434

Storm Sails Areas	
Heavy Weather Jib	46.33
Storm Jib (JL=12.04)	17.16
Storm Trysail	19.53

Owner

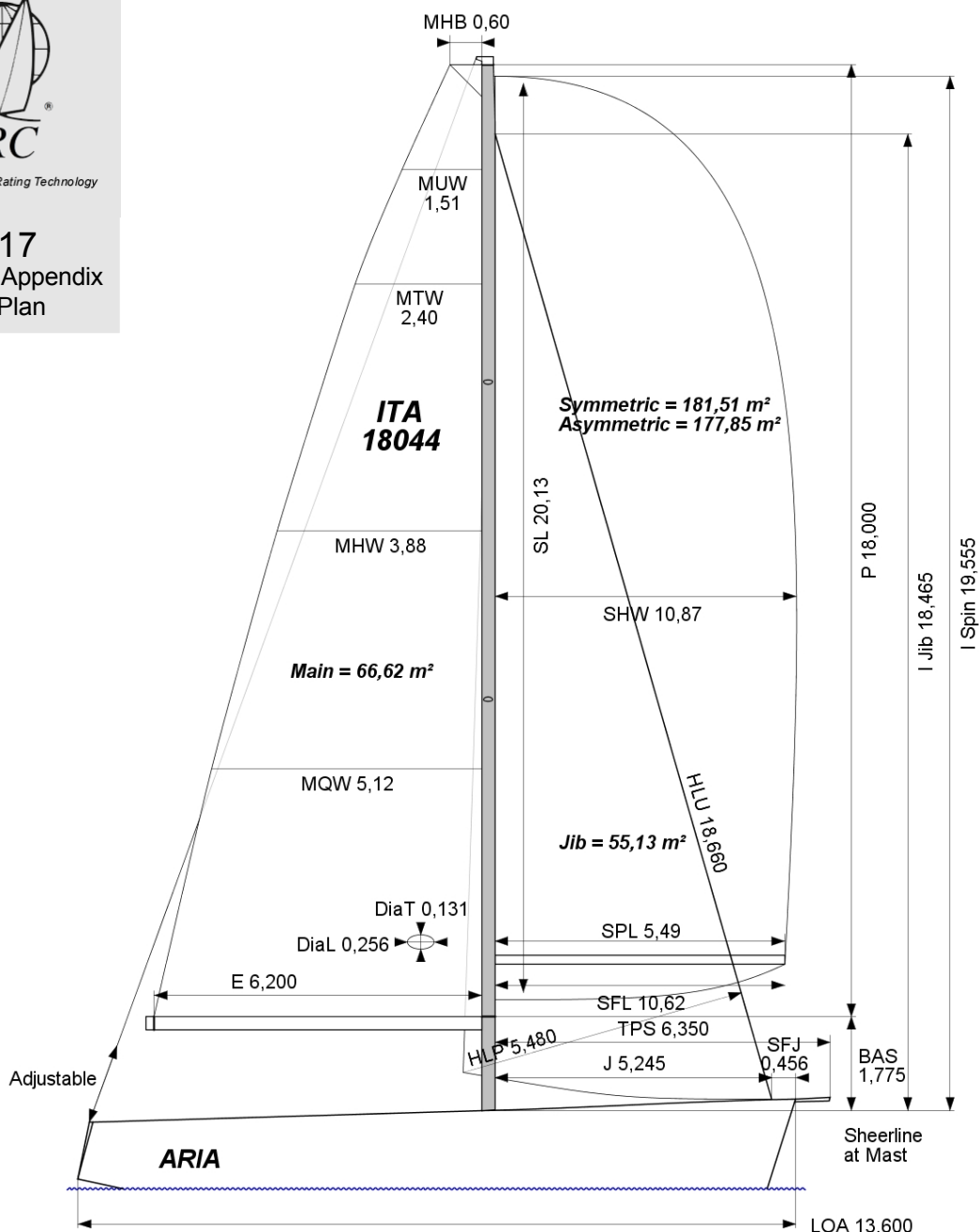
BOAT Name ARIA Sail Nr ITA-18044 File I18044 Data in meters/kilograms										INCLINING TEST AND FREEBOARDS Inclining Test Current Inclining Flotation date 24/06/2015 SG 1.0250 FFM 1.662 FF 1.661 SFFP 1.060 FAM 1.258 FA 1.260 SAFFP 13.327 W1 124.1 PD1 520.3 WD 14.410 W2 124.1 PD2 527.9 GSA 1.0 W3 124.1 PD3 522.7 RSA 1.0 W4 124.1 PD4 524.9 PLM 9000.0 LCF from stem on CL / on sheer 7.467 / 7.808 Maximum beam station from stem 9.445 RM Measured 268.8kg·m RM Default 310.0kg·m Limit of positive stability / Stab.Index 117.5° / 122.6 Freeboard at mast at 5.701 1.479																																																																																	
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners 0 Carbon Mast Yes Jumper Struts None Taper Hollows No Jib Furler Yes Fiber Rigging No Main Furler No Lenticular Rigging No Without Backstay No Articulated Bowsprit No P 18.000 E 6.200 MDT1 0.131 MW 0.256 IG 18.465 J 5.245 MDL1 0.256 GO 0.273 ISP 19.555 SFJ 0.456 MDT2 0.111 BD 0.260 BAS 1.775 SPL 5.485 MDL2 0.216 MWT 234.00 FSP 0.074 TPS 6.350 TL 1.110 MCG 6.245										PROPELLER Installation Strut PRD 0.520 Type Folding 3 blades PBW 0.132 Twin Screw No PIPA 0.0043 ST1 0.065 ST3 0.180 ST5 0.331 ST2 0.180 ST4 0.110 EDL 3.330																																																																																	
MIZZEN RIG AND SAILS N/A										MOVEABLE BALLAST N/A																																																																																	
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SAILS (Maximum Areas)																																																																																											
Mainsail MHB MUW MTW MHW MQW 0.600 1.51 2.40 3.88 5.12 Symmetric SLU SLE SL SHW SFL 20.13 20.13 20.13 10.87 10.62 Asymmetric SLU SLE SL SHW SFL 21.18 19.62 20.40 10.44 10.55										Area Area (r) Formula 66.62 67.88 $P/8 \cdot (E + 2 \cdot MQW + 2 \cdot MHW + 1.5 \cdot MTW + MUW + 0.5 \cdot MHB)$ 181.51 $SL \cdot (SFL + 4 \cdot SHW) / 6$ 177.85 $AS \cdot (SFL + 4 \cdot SHW) / 6$																																																																																	
HEADSAILS Area = $0.1125 \cdot HLU \cdot (1.445 \cdot HLP + 2 \cdot HQW + 2 \cdot HHW + 1.5 \cdot HTW + HUW + 0.5 \cdot HHB)$ <table border="1"> <thead> <tr> <th>HHB</th> <th>HUW</th> <th>HTW</th> <th>HHW</th> <th>HQW</th> <th>HLP</th> <th>HLU</th> <th>Area</th> <th>Btn</th> <th>Fly</th> <th>Meas.Date</th> <th>Material</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>0.12</td> <td>0.98</td> <td>1.75</td> <td>3.03</td> <td>4.31</td> <td>5.48</td> <td>18.66</td> <td>55.13</td> <td>N</td> <td>N</td> <td>13/06/2013</td> <td>Carbon</td> <td></td> </tr> <tr> <td>0.10</td> <td>0.90</td> <td>1.66</td> <td>2.92</td> <td>4.20</td> <td>5.44</td> <td>18.66</td> <td>53.62</td> <td>N</td> <td>N</td> <td>04/06/2013</td> <td>Carbon</td> <td></td> </tr> <tr> <td>0.08</td> <td>0.63</td> <td>1.25</td> <td>2.54</td> <td>3.87</td> <td>5.25</td> <td>18.14</td> <td>46.84</td> <td>N</td> <td>N</td> <td>06/06/2013</td> <td>Unknow</td> <td></td> </tr> </tbody> </table>																				HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment	0.12	0.98	1.75	3.03	4.31	5.48	18.66	55.13	N	N	13/06/2013	Carbon		0.10	0.90	1.66	2.92	4.20	5.44	18.66	53.62	N	N	04/06/2013	Carbon		0.08	0.63	1.25	2.54	3.87	5.25	18.14	46.84	N	N	06/06/2013	Unknow																					
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SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
B	0.600	1.51	2.40	3.88	5.12	66.62	ZIZZI	13/06/2013	BANKS	Carbon	

HEADSAILS (3)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
C	0.12	0.98	1.75	3.03	4.31	5.48	18.66	104%	55.13	N	N	ZIZZI	13/06/2013	BANKS	Carbon	
A	0.10	0.90	1.66	2.92	4.20	5.44	18.66	104%	53.62	N	N	ZIZZI	04/06/2013	BANKS	Carbon	
B	0.08	0.63	1.25	2.54	3.87	5.25	18.14	100%	46.84	N	N	PARRA	06/06/2013		Unknow	

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
A	20.13	20.13	20.13	10.87	10.62	181.51	PARRA	06/06/2013		Unknown	

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
A	21.18	19.62	20.40	10.44	10.55	177.85	asym	ZIZZI	04/06/2013	BANKS	Carbon	