

BOAT Name ALTAIR 3 Sail Nr ITA-16300	GPH 488.7	HULL Length Overall 15.000m Maximum Beam 4.230m Displacement 8,447kg Draft 3.488m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.001% Fwd Accommodation Yes Hull Construction Carbon Carbon Rudder Yes Crew Arm Extension
GENERAL Class SCUDERIA 50 Designer FELCI YACHTS Builder ADRIA SAILS Series 05/2009 Age 05/2009 Age Allowance 0.325% Offset File I16300.off - 07/04/2015 10:39:46 Measurement by - 27/04/2017		IMSLS 14.157m VCGD -0.355m Sink 31.47kg/mm RL 13.236m VCGM -0.401m WS 40.50m² LSM0 13.856m Displacement/Length ratio 3.1753



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	476.0			536.4		
Time on Time	1.2606			1.2584		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	554.1	435.1	384.3	719.3	540.7	468.9
Time on Time	1.2183	1.5514	1.7565	0.9384	1.2483	1.4395

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	804.3	657.7	602.7	580.4	566.5	550.2	546.3
52°	525.7	439.4	415.7	406.8	402.1	395.7	389.9
60°	495.1	422.2	402.3	393.9	388.9	383.7	373.3
75°	471.8	411.3	388.5	374.0	365.3	359.8	346.7
90°	478.1	414.0	387.8	364.5	347.0	337.1	326.4
110°	494.1	412.8	386.2	368.0	350.9	335.3	298.0
120°	509.9	417.4	381.9	356.8	339.7	324.2	291.9
135°	572.6	449.0	400.6	368.2	335.6	304.9	267.0
150°	686.8	538.8	452.1	402.7	377.8	349.5	287.6
Run VMG	793.1	622.2	522.0	467.0	436.6	403.6	332.0

Certificate
Number **163001**
ORC Ref **ITA00053055**
Issued On **07/06/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **1,096kg**
Maximum **940kg**
Minimum* **705kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	498.8	1.2029
Double H.OSN	488.1	1.2293
Non Spin GPH	526.0	1.1407
Non Spin OSN	514.8	1.1655

Selected Courses							
Windward / Leeward	798.7	639.9	562.3	523.7	501.6	476.9	439.2
Circular Random	670.4	542.2	474.5	435.3	410.1	391.7	363.9
Coastal / Long Distance	798.1	601.6	507.2	453.6	423.8	395.0	348.2
Non Spinnaker	735.8	589.4	510.0	462.5	431.8	410.6	382.6

Sails Limitations

Headsails	Spinnakers
7	5

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	42.8°	41.2°	39.5°	38.5°	38.2°	37.3°	37.7°
Beat VMG	4.48	5.47	5.97	6.20	6.35	6.54	6.59
52°	6.85	8.19	8.66	8.85	8.95	9.10	9.23
60°	7.27	8.53	8.95	9.14	9.26	9.38	9.64
75°	7.63	8.75	9.27	9.63	9.85	10.01	10.38
90°	7.53	8.69	9.28	9.88	10.37	10.68	11.03
110°	7.29	8.72	9.32	9.78	10.26	10.74	12.08
120°	7.06	8.63	9.43	10.09	10.60	11.10	12.33
135°	6.29	8.02	8.99	9.78	10.73	11.81	13.49
150°	5.24	6.68	7.96	8.94	9.53	10.30	12.52
Run VMG	4.54	5.79	6.90	7.71	8.25	8.92	10.84
Gybe Angles	141.7°	140.4°	145.9°	152.3°	150.4°	147.8°	144.0°

Class Division Length
CDL = **13.698**

Storm Sails Areas
Heavy Weather Jib **51.85**
Storm Jib (JL=12.74) **19.21**
Storm Trysail **21.48**

Owner

BOAT	
Name ALTAIR 3	Sail Nr ITA-16300
File I16300	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 19.230	E 6.380 MDT1 0.152 MW 0.320
IG 19.460	J 5.750 MDL1 0.320 GO 0.360
ISP 21.455	SFJ 0.095 MDT2 0.145 BD 0.297
BAS 1.855	SPL 0.000 MDL2 0.244 MWT 275.20
FSP 0.090	TPS 7.885 TL 1.470 MCG 6.600

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 07/06/2019	SG 1.0060	
FFM 1.575	FF 1.580	SFFP 0.790
FAM 1.259	FA 1.267	SAFP 14.671
W1 161.0	PD1 516.2	WD 13.650
W2 161.0	PD2 516.6	GSA 1.0
W3 161.0	PD3 515.2	RSA 1.0
W4 161.0	PD4 514.7	PLM 9000.0
LCF from stem on CL / on sheer	8.114 / 8.370	
Maximum beam station from stem	9.580	
RM Measured	335.6kg-m	
RM Default	326.7kg-m	
Limit of positive stability / Stab.Index	132.9° / 134.7	
Freeboard at mast at 5.845	1.397	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.492	
Type Folding 2 blades	PBW 0.130	
Twin Screw No	PIPA 0.0039	
ST1 0.065	ST3 0.180	ST5 0.255
ST2 0.180	ST4 0.110	EDL 2.670

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COMMENTS	
SARTIAME IN FIBRA	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	1.440	2.07	2.91	4.22	5.34	78.70	80.41	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	Formula		
	23.35	20.58	21.96	12.72	13.33	235.06	AS · (SFL + 4·SHW) / 6		

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HBB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.18	1.00	1.84	3.30	4.65	5.93	19.48	62.06	N	N	27/04/2017	Unknow	

MEASUREMENT INVENTORY				
Measurer	Date 07/06/2019			
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	VOLVO	55 Hp	
<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	ACQUA	PVC	300.0	11.35	0.00	0-0	VUOTO
B	Tank	ACQUA	PVC	300.0	11.35	0.00	0-0	VUOTO
C	Tank	GASOLIO	INOX	220.0	11.35	0.00	40-0	L
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>				
A	Battery	60.0	7.15	0.00 1 DA 400 Ah				

