

BOAT Name ALEGATO III Sail Nr ECU-002	GPH 614,8	HULL Length Overall 12,310m Maximum Beam 3,800m Displacement 6.688kg Draft 2,199m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,000% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class F&C40 Designer G. FRERS Builder F&C Series 01/1986 Age 01/1986 Age Allowance 0,487% Offset File ALCANCE.OFF - 23/09/1993 02:11:14 Measurement by P. GUTIERREZ - 01/10/2017		IMSL 9,980m VCGD -0,128m Sink 20,18kg/mm RL 8,717m VCGM -0,033m WS 28,09m² LSMO 10,054m Displacement/Length ratio 6,5808



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ORC International
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Rating Office
Federación Ecuatoriana
de Vela
Patricio D. Gutiérrez - RO
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	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	598,2			669,2		
Time On Time	1,0029			1,0086		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	707,0	544,1	483,5	918,0	674,5	579,9
Time on Time	0,9548	1,2406	1,3960	0,7353	1,0007	1,1639

Wind Velocity	TIME ALLOWANCES						
	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1031,6	859,8	761,8	715,2	691,6	677,9	670,0
52°	671,1	563,2	509,9	490,6	482,1	477,3	473,2
60°	631,1	533,3	493,4	476,5	467,5	461,8	456,5
75°	597,9	512,6	481,4	463,2	448,8	438,1	429,1
90°	599,4	512,0	479,7	460,8	443,9	428,6	407,7
110°	642,5	525,8	479,8	454,3	434,7	424,3	405,9
120°	661,2	539,2	485,9	459,5	435,4	413,9	391,4
135°	730,3	589,9	510,8	476,1	452,8	430,0	389,1
150°	861,0	681,2	574,3	508,4	476,8	454,9	413,6
Run VMG	994,2	786,6	663,0	581,5	527,0	488,3	444,5

Selected Courses							
Windward / Leeward	1012,9	823,2	712,4	648,3	609,3	583,1	557,2
Circular Random	848,5	684,4	596,4	545,2	513,6	493,1	467,9
Ocean for PCS	1042,9	804,8	670,4	588,1	534,7	497,7	447,3
Non Spinnaker	894,9	717,7	621,3	564,3	528,8	505,4	476,3

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	43,7°	42,7°	42,6°	41,2°	40,2°	39,5°	39,3°
Beat VMG	3,49	4,19	4,73	5,03	5,21	5,31	5,37
52°	5,36	6,39	7,06	7,34	7,47	7,54	7,61
60°	5,70	6,75	7,30	7,55	7,70	7,80	7,89
75°	6,02	7,02	7,48	7,77	8,02	8,22	8,39
90°	6,01	7,03	7,51	7,81	8,11	8,40	8,83
110°	5,60	6,85	7,50	7,92	8,28	8,48	8,87
120°	5,44	6,68	7,41	7,83	8,27	8,70	9,20
135°	4,93	6,10	7,05	7,56	7,95	8,37	9,25
150°	4,18	5,28	6,27	7,08	7,55	7,91	8,70
Run VMG	3,62	4,58	5,43	6,19	6,83	7,37	8,10
Gybe Angles	145,3°	149,5°	150,6°	155,5°	171,4°	180,0°	180,0°

Certificate
Number **FVEC12**
ORC Ref **ECU00005591**
Issued On **04/10/2017**
VPP Ver. **2017 1.00**
Valid until **31/03/2018**

Crew Weight
Declared **690kg**
Default* **694kg**
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **641,0 0,9360**
Non Spin OSN **624,3 0,9611**

Sails Limitations
Headsails **5** | Spinnakers **3**

Class Division Length
CDL = **9,349**

Storm Sails Areas
Heavy Weather Jib **36,54**
Storm Jib (JL=10,69) **13,53**
Storm Trysail **12,40**

Owner
JIMMY PAZMIÑO PAREJA

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

Signature

BOAT	
Name ALEGATO III	Sail Nr ECU-002
File ECU002	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 01/10/2017		SG 1,0253	
FFM 1,278	FF 1,280	SFFP 0,650	
FAM 0,995	FA 0,995	SAFP 10,800	
W1 85,0	PD1 504,3	WD 11,600	
W2 85,0	PD2 504,3	GSA 1,0	
W3 85,0	PD3 502,2	RSA 1,0	
W4 85,0	PD4 502,0	PLM 9000,0	
LCF from stem on CL / on sheer		6,472 / 6,712	
Maximum beam station from stem		6,850	
RM Measured		154,3kg·m	
RM Default		153,0kg·m	
Limit of positive stability / Stab.Index		116,6° / 117,6	
Freeboard at mast at 4,915		1,089	

RIG			
Forestay Tension Aft	Spreaders 3		
Inner Stay None Fitted	Runners 2		
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 14,140	E 5,010	MDT1 0,110	MW 0,170
IG 16,214	J 4,830	MDL1 0,200	GO 0,240
ISP 16,232	SFJ 0,085	MDT2 0,106	BD 0,186
BAS 1,754	SPL 4,750	MDL2 0,165	MWT 181,40
FSP 0,064	TPS	TL 2,600	MCG 5,266



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IMS Measurement Certificate

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0,458		
Type Folding 2 blades	PBW 0,122		
Twin Screw No	PIPA 0,0140		
PSA 24,300	PHL 0,151	ST3 0,153	ESL 3,235
PSD 0,029	ST1 0,039	ST4 0,059	
PHD 0,071	ST2 0,116	ST5 0,203	

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COMMENTS	
EX ANDIAMO NUEVO ARMADOR	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,160	0,97	1,77	3,07	4,14	40,89	41,59	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	113,40		SL · (SFL + 4·SHW) / 6	
	15,96	15,96	15,96	8,52	8,55				
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
0,09	0,83	1,62	3,26	4,90	6,61	16,10	52,85			26/09/2017	Kevlar	REMEDIACION
0,09	0,79	1,53	3,10	4,79	6,55	15,93	50,85			26/09/2017	Unknow	
0,09	0,72	1,41	2,94	4,62	6,51	15,72	48,47			03/06/2012	Kevlar	

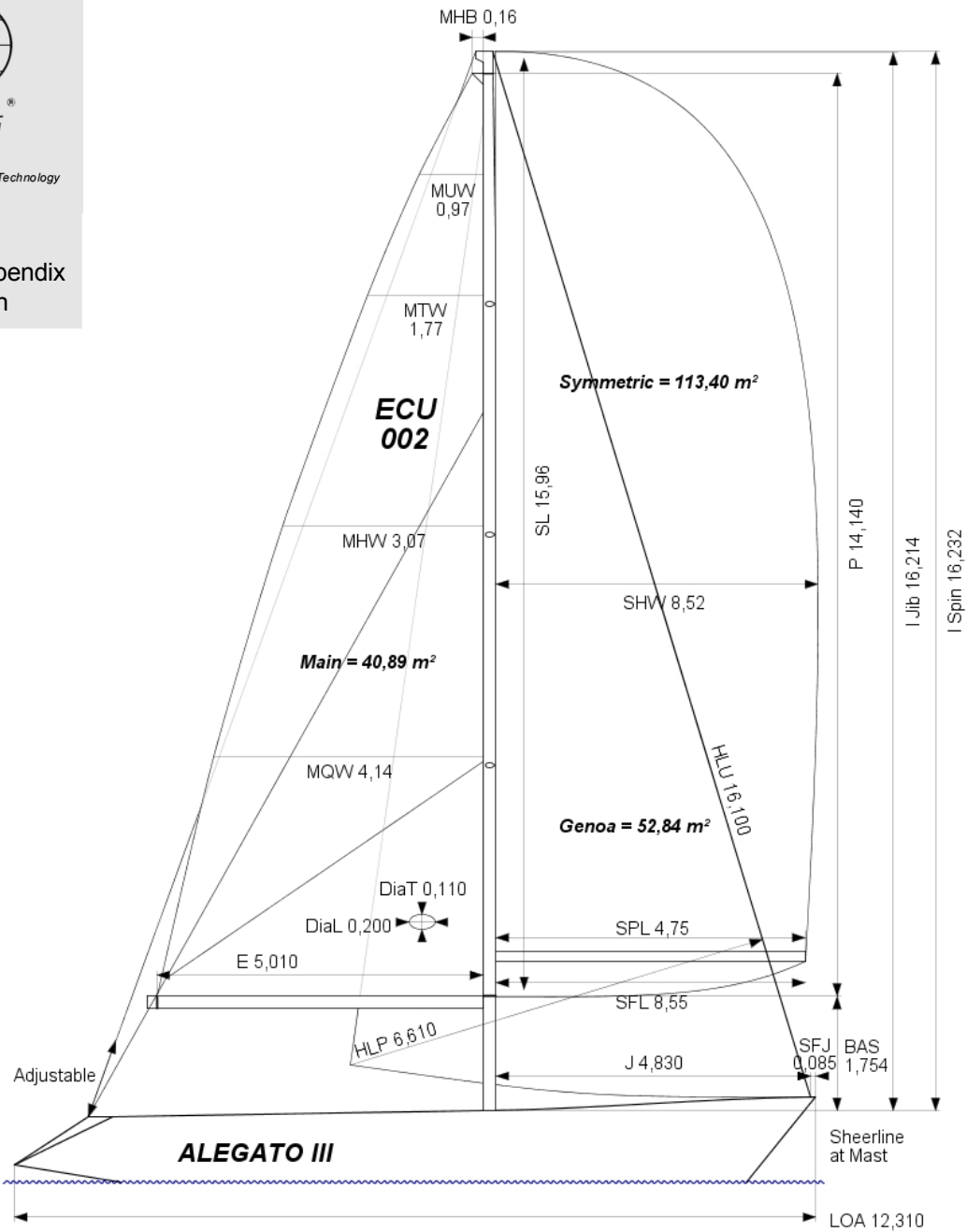
MEASUREMENT INVENTORY				
Measurer PATRICIO GUTIERREZ P G				
Date 01/10/2017				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
C4	Engine	VOLVO PENTA	40 HP	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

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 Description</i>
E 6	Tank	PETROLEO	PVC	72,0	5,50	0,00	18,0
B6	Tank	AGUA	PVC	72,0	5,50	0,00	0,0
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>			
C4	Battery	30,0	7,80	0,00 2 X 12 V - 75 AMP			
E6	Battery	15,0	6,00	0,00 12 V - 75 AMP			



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M1	0,160	0,97	1,77	3,07	4,14	40,89	A V M	24/04/2016	ELVSTROM	Kevlar	REMEDICION

HEADSAILS (3)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1	0,09	0,83	1,62	3,26	4,90	6,61	16,10	137%	52,85			P	26/09/2017	NORTH	Kevlar	REMEDICION
JT	0,09	0,79	1,53	3,10	4,79	6,55	15,93	136%	50,85			P	26/09/2017	ELSTROM	Unknow	
K L	0,09	0,72	1,41	2,94	4,62	6,51	15,72	135%	48,47			F	03/06/2012		Kevlar	

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S1.5	15,96	15,96	15,96	8,52	8,55	113,40	P GUTIERREZ	24/04/2016	ELVSTROM	Nylon	REMEDICION

ASYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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