



World Leader in Rating Technology

2017 ORC Club Certificate

Rating Office

**PATRICIO D. GUTIERREZ
C. GRIERSON Y
COSTANERASUR
Y.C.A**



Certificate

Number **528501**
Issued On **26/05/2017**
ORC Ref **ARG00004813**
VPP Ver. **2017 1.00**
Valid until **31/12/2017**

Crew Weight

Declared **170kg**
Default* **674kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **660,5 0,9084**
Non Spin OSN **642,9 0,9333**

Sails Limitations

Headsails **5** Spinnakers **3**

Spinnaker configuration

Symmetric: **Yes 80,97**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **9,070**

Stability (Estimated)

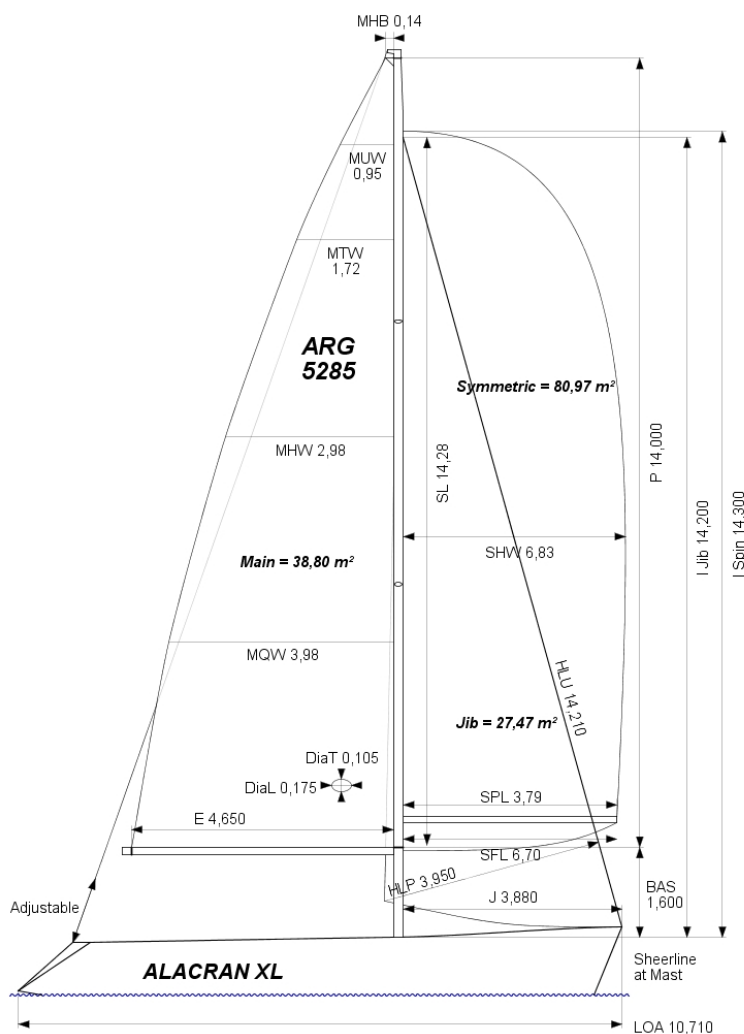
Limit Positive Stab.: **116,3°**
Stability Index: **116,0**

Owner

**HUGO BEVIGLIA
AV. LIBERTADOR 5484
CABA**

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

Signature



BOAT		GPH		HULL					
Name ALACRAN XL		631,5		Data File	2alacran	LOA	10,710m		
Sail Nr ARG-5285				Offset File	ARG5285.off	MB	3,496m		
				Displacement	4.970kg	Draft	2,073m		
CLASS				IMS Division	Cruiser/Racer	Dynamic All.	0,185%		
Class VOLKER 35				Fwd Accom.	Yes	Construction	Solid		
Designer N. VOLKER				Fiber Rigging	No	Aramid Core	No		
Builder PLENAMAR				Crew Arm Ex		Carbon Rudder	No		
Series 01/1998				Light Stanchions					
Age Date 07/2014				IMSL	9,974m	VCGD	0,054m	Sink	18,55kg/mm
Age Allowance 0,487%				RL	8,165m	VCGM	-0,056m	WS	24,04m²
COMMENTS				LSM0	9,857m	Displacement/Length ratio		5,1895	
				Water Ballast	0	Trim Tab	No		
				CENTERBOARD					
				N/A					
PROPELLER									
Installation Shaft exposed		PRD 0,410							
Type Folding 2 blades		PBW 0,110							
		PIPA 0,0030							

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	614,8			686,7		
Time On Time	0,9759			0,9829		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	721,2	560,0	499,8	934,1	691,2	597,6
Time on Time	0,9359	1,2053	1,3506	0,7226	0,9766	1,1296

BOAT Name ALACRAN XL Sail Nr ARG-5285 File 2alacran Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Club Estimated VCG Flotation date 10/03/2017 SG 1,0000 FFM 1,190 FF 1,198 SFFP 0,556 FAM 0,922 FA 0,928 SAFF 9,426 LCF from stem on CL / on sheer 5,903 / 6,155 Maximum beam station from stem 6,676 RM Measured 114,4kg·m RM Default 111,1kg·m Limit of positive stability / Stab.Index 116,3° / 116,0 Freeboard at mast at 3,880 1,015		 World Leader in Rating Technology 2017 Measurements Datasheet												
RIG Forestay Tension Aft Spreaders 2 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 14,000 E 4,650 MDT1 0,105 MW 0,175 IG 14,200 J 3,880 MDL1 0,175 GO 0,200 ISP 14,300 SFJ 0,000 MDT2 0,105 BD 0,136 BAS 1,600 SPL 3,790 MDL2 0,130 MWT FSP 0,064 TPS TL 1,000 MCG		PROPELLER Installation Shaft exposed PRD 0,410 Type Folding 2 blades PBW 0,110 Twin Screw No PIPA 0,0030 PSA 20,000 PHL 0,135 ST3 0,115 ESL 0,730 PSD 0,025 ST1 0,030 ST4 0,045 PHD 0,045 ST2 0,115 ST5 0,135														
MIZZEN RIG AND SAILS N/A		MOVEABLE BALLAST N/A														
COMMENTS 		CENTERBOARD N/A														
SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
M1	0,140	0,95	1,72	2,98	3,98	38,80	PG	10/03/2017	UK	Kevlar	* Copied from legacy					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1	0,09	0,50	0,94	1,88	2,88	3,95	14,21	102%	27,47	Y		PG	10/03/2017	UK	Kevlar	* Copied from legacy *
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
S2	14,28	14,28	14,28	6,83	6,70	80,97	PG	10/03/2017	UK	Nylon	* Copied from legacy *					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
MEASUREMENT INVENTORY																
Measurer PG PG Date 10/03/2017 Comment																
Id	Item	Weight	Distance	VCG	Description											
Id	Item	Maker	Model													
C4	Engine	YANMAR	29 HP													
Id	Item	Weight	Distance	VCG	Description											
MEASUREMENT INVENTORY																
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description								
C3	Tank	GAS OIL	PVC	80,0	8,70	0,00	5,0									
B5	Tank	AGUA	INOX	80,0	5,00	0,00	0,0									
E5	Tank	AGUA	INOX	80,0	5,00	0,00	0,0									



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ORC Club Certificate Appendix

BOAT

Name **ALACRAN XL**
Sail Nr **ARG-5285**

Certificate Number **528501**
Issued On **26/05/2017**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1061,9	882,2	784,2	739,0	718,2	707,3	693,0
52°	695,9	585,8	531,6	511,7	503,6	499,2	491,5
60°	656,5	556,1	514,0	496,7	488,6	483,9	478,0
75°	624,6	535,5	501,1	482,7	468,9	459,6	451,8
90°	626,5	531,3	498,8	479,2	462,0	445,2	422,1
110°	634,4	529,2	489,6	466,1	452,3	439,9	419,9
120°	655,4	543,0	496,1	470,1	445,2	425,6	403,8
135°	727,7	595,5	521,9	488,8	464,8	439,5	389,7
150°	864,8	687,3	583,6	520,4	489,4	466,7	419,4
Run VMG	998,6	793,6	672,9	592,3	534,7	498,4	452,9

Selected Courses

Windward / Leeward	1030,3	837,9	728,5	665,6	626,5	602,9	573,0
Circular Random	867,3	701,3	612,8	561,7	530,2	509,3	481,5
Ocean for PCS	1063,7	823,2	688,0	605,5	551,9	514,4	462,0
Non Spinnaker	921,8	739,0	639,9	581,9	546,0	522,4	492,1

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°	41,0°	39,9°	39,1°	38,6°	38,4°
Beat VMG	3,39	4,08	4,59	4,87	5,01	5,09	5,19
52°	5,17	6,14	6,77	7,04	7,15	7,21	7,32
60°	5,48	6,47	7,00	7,25	7,37	7,44	7,53
75°	5,76	6,72	7,18	7,46	7,68	7,83	7,97
90°	5,75	6,78	7,22	7,51	7,79	8,09	8,53
110°	5,67	6,80	7,35	7,72	7,96	8,18	8,57
120°	5,49	6,63	7,26	7,66	8,09	8,46	8,92
135°	4,95	6,05	6,90	7,36	7,74	8,19	9,24
150°	4,16	5,24	6,17	6,92	7,36	7,71	8,58
Run VMG	3,61	4,54	5,35	6,08	6,73	7,22	7,95
Gybe Angles	144,4°	149,7°	152,0°	157,5°	180,0°	180,0°	180,0°