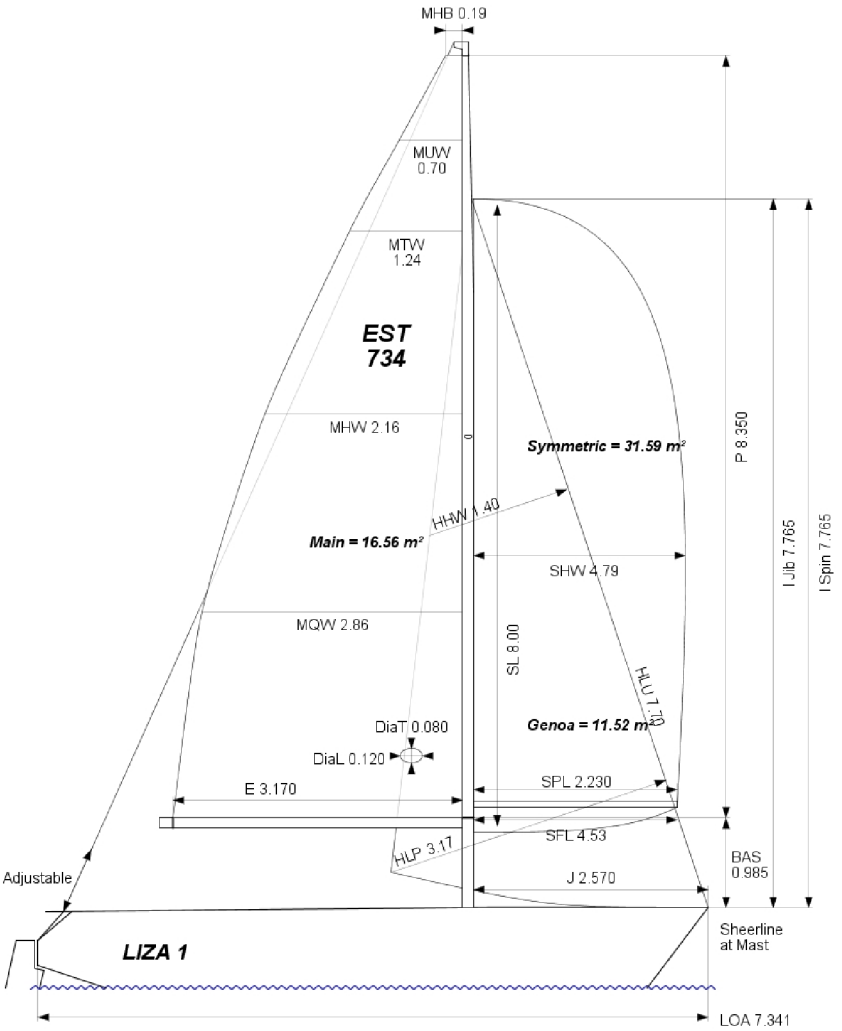

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Offshore Racing Congress
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2019 ORC Club Certificate

Rating Office

EYU
Purje 8
11911, Tallinn
Estonia

Certificate

Number **Est734**
Issued On **6/12/2019**
ORC Ref **EST00000656**
VPP Ver. **2019 1.01**
Valid until **12/31/2019**

Crew Weight

Default	320kg
Maximum	**400kg**
Minimum*	**300kg**

**when applied by the NoR and SI*

Non Manual Pwr

Special Scoring

	ToD	ToT
Double H.GPH	**755.1**	**0.7946**
Double H.OSN	**734.9**	**0.8165**
Non Spin GPH	**775.9**	**0.7733**
Non Spin OSN	**748.7**	**0.8014**

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes** **31.59**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **6.134**

Stability (Estimated)

Limit Positive Stab.: **113.8°**
Stability Index: **105.8**

BOAT

Name **LIZA 1**
Sail Nr **EST 734**

GPH

744.4

CLASS

Class	**Extra Paulette**
Designer	**Joubert/Nivelt**
Builder	
Series	**05/1978**
Age Date	**05/1978**
Age Allowance	**0.487%**

COMMENTS

PROPELLER

Type **No Propeller**

HULL

Data File	**Est0734**	LOA	**7.341m**
Offset File	**xtrapaulet.off**	MB	**3.124m**
Displacement	**1,406kg**	Draft	**1.453m**

IMS Division		Dynamic All.	**0.242%**
Fwd Accom.	**Yes**	Construction	**Solid**
Fiber Rigging	**No**	Aramid Core	**No**
Crew Arm Ex		Carbon Rudder	**No**
		Light Stanchions	**No**

IMSL	**6.287m**	VCGD	**0.015m**	Sink	**8.14kg/mm**
RL	**5.980m**	VCGM	**0.034m**	WS	**10.87m²**
LSM0	**5.845m**	Displacement/Length ratio			**7.0410**

Water Ballast **0** Trim Tab **No**
BLR Index **0.0000**

CENTERBOARD

N/A

SCORING OPTIONS

	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	**721.9**			**800.3**		
Time on Time	**0.8311**			**0.8434**		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	**855.3**	**660.2**	**579.8**	**1104.2**	**805.7**	**693.3**
Time on Time	**0.7892**	**1.0224**	**1.1642**	**0.6113**	**0.8378**	**0.9736**

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BOAT

Name	**LIZA 1**	Sail Nr	**EST 734**
File	**Est0734**	Data in	**meters/kilograms**

RIG

Forestay Tension	**Aft**	Spreaders	**1**
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	**8.350**	E	**3.170**	MDT1	**0.080**	MW	
IG	**7.765**	J	**2.570**	MDL1	**0.120**	GO	
ISP	**7.765**	SFJ		MDT2	**0.040**	BD	
BAS	**0.985**	SPL	**2.230**	MDL2	**0.060**	MWT	**26.00**
FSP		TPS		TL	**2.620**	MCG	**3.421**

INCLINING TEST AND FREEBOARDS

Inclining Test **Club Estimated VCG**

Flotation date **08/06/2019** SG

FFM		FF	**0.880**	SFFP	**0.200**
FAM		FA	**0.837**	SAFP	**7.257**

LCF from stem on CL / on sheer	**3.954 / 4.246**
Maximum beam station from stem	**4.432**
RM Measured	**25.3kg·m**
RM Default	**24.5kg·m**
Limit of positive stability / Stab.Index	**113.8° / 105.8**
Freeboard at mast at 2.570	**0.875**

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2019 Measurements Datasheet

MIZZEN RIG AND SAILS

N/A

PROPELLER

Type **No Propeller**

Certificate

Number **Est734**
ORC Ref **EST00000656**
Issued On **6/12/2019**
VPP Ver. **2019 1.01**
Valid until **12/31/2019**

COMMENTS

MOVABLE BALLAST

N/A

CENTERBOARD

N/A

SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.19	0.70	1.24	2.16	2.86	16.56	EST 5	08/06/2019		Unknown	

HEADSAILS (2)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.07	0.37	0.68	1.40	2.25	3.17	7.70	123%	11.53			EST5	08/06/2019		Unknow	
3	0.06	0.34	0.61	1.17	1.76	2.36	7.47	92%	8.87			EST5	08/06/2019		Unknow	

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	8.00	8.00	8.00	4.79	4.53	31.59	EST5	08/06/2019		Unknown	

ASYMMETRIC SPINNAKERS (0)

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

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2009
ORC Club Certificate Appendix

BOAT			
Name	**LIZA 1**	Certificate Number	**Est734**
Sail Nr	**EST 734**	Issued On	**6/12/2019**

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	**1266.2**	**1057.4**	**935.8**	**863.5**	**821.5**	**808.1**	**812.6**
52°	**829.2**	**698.4**	**637.8**	**611.6**	**594.4**	**582.9**	**577.9**
60°	**784.7**	**667.9**	**621.2**	**597.0**	**578.8**	**563.7**	**553.4**
75°	**753.5**	**650.0**	**609.8**	**583.3**	**561.1**	**541.3**	**516.7**
90°	**743.2**	**631.4**	**587.9**	**557.1**	**533.2**	**519.6**	**493.1**
110°	**741.9**	**630.4**	**586.8**	**551.4**	**518.7**	**489.9**	**448.5**
120°	**768.6**	**643.5**	**595.3**	**560.6**	**527.2**	**495.8**	**432.7**
135°	**860.3**	**703.6**	**619.9**	**583.3**	**550.8**	**519.7**	**459.3**
150°	**1011.4**	**802.6**	**679.2**	**614.0**	**580.8**	**550.4**	**493.9**
Run VMG	**1167.8**	**925.6**	**779.2**	**678.3**	**620.2**	**586.6**	**529.3**
Selected Courses							
Windward / Leeward	**1217.0**	**991.5**	**857.5**	**770.9**	**720.9**	**697.3**	**670.9**
Circular Random	**1026.6**	**829.4**	**722.6**	**659.4**	**619.4**	**592.4**	**557.3**
Coastal / Long Distance	**1212.1**	**930.5**	**775.5**	**682.3**	**630.2**	**592.7**	**528.7**
Non Spinnaker	**1080.1**	**867.8**	**752.3**	**684.0**	**641.1**	**612.7**	**577.1**

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	**42.5°**	**42.3°**	**41.9°**	**39.2°**	**37.3°**	**36.9°**	**37.8°**
Beat VMG	**2.84**	**3.40**	**3.85**	**4.17**	**4.38**	**4.46**	**4.43**
52°	**4.34**	**5.15**	**5.64**	**5.89**	**6.06**	**6.18**	**6.23**
60°	**4.59**	**5.39**	**5.80**	**6.03**	**6.22**	**6.39**	**6.51**
75°	**4.78**	**5.54**	**5.90**	**6.17**	**6.42**	**6.65**	**6.97**
90°	**4.84**	**5.70**	**6.12**	**6.46**	**6.75**	**6.93**	**7.30**
110°	**4.85**	**5.71**	**6.13**	**6.53**	**6.94**	**7.35**	**8.03**
120°	**4.68**	**5.59**	**6.05**	**6.42**	**6.83**	**7.26**	**8.32**
135°	**4.18**	**5.12**	**5.81**	**6.17**	**6.54**	**6.93**	**7.84**
150°	**3.56**	**4.49**	**5.30**	**5.86**	**6.20**	**6.54**	**7.29**
Run VMG	**3.08**	**3.89**	**4.62**	**5.31**	**5.80**	**6.14**	**6.80**
Gybe Angles	**148.6°**	**152.8°**	**153.6°**	**172.1°**	**180.0°**	**180.0°**	**180.0°**

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