



World Leader in Rating Technology

2018 ORC Club Certificate

Rating Office

EYU
Regati 1
11911, Tallinn
Estonia

Certificate

Number **EST703**
Issued On **6/13/2018**
ORC Ref **EST00000201**
VPP Ver. **2018 1.00**
Valid until **12/31/2018**

Crew Weight

Default 728kg
Maximum **728kg**
Minimum* **546kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	606.2	0.9898
Double H.OSN	590.6	1.0160
Non Spin GPH	639.2	0.9387
Non Spin OSN	620.0	0.9678

Sails Limitations

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

Spinnaker configuration

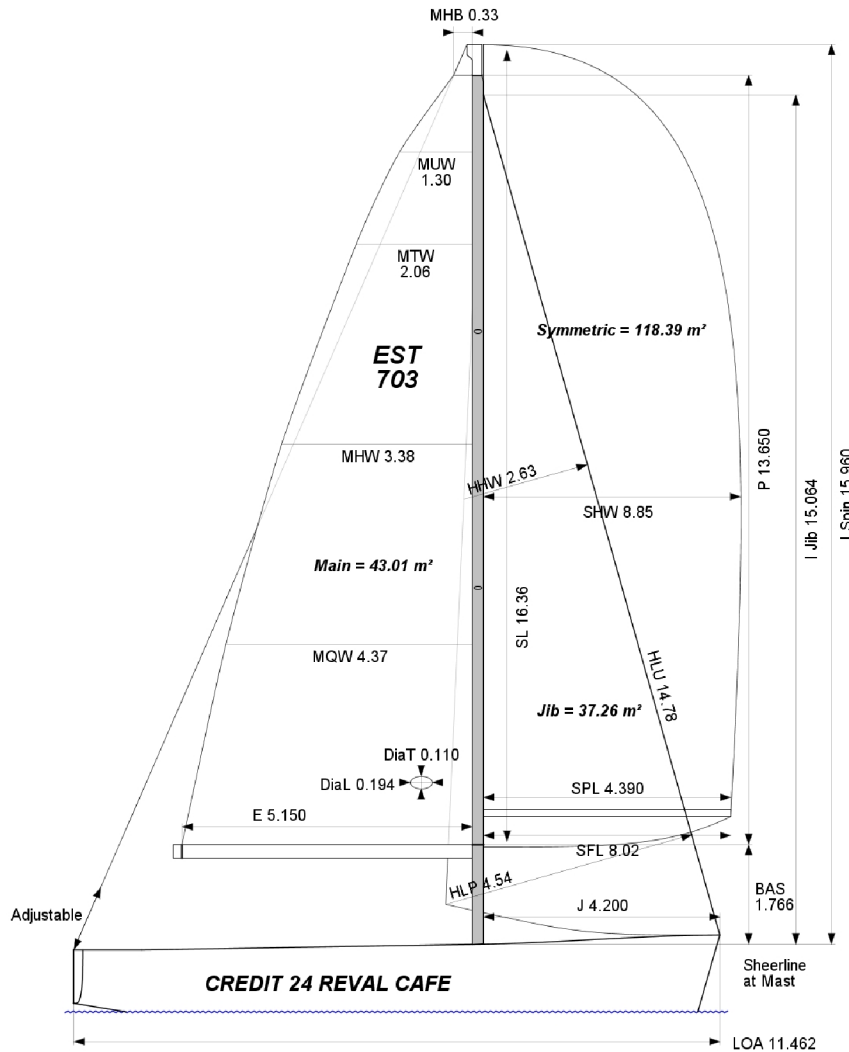
Symmetric: **Yes 118.39**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 9.740

Stability (Measured)

Limit Positive Stab.: **118.7°**
Stability Index: **121.4**



BOAT		GPH		HULL			
Name	Credit 24 Reval Cafe	602.7	Data File	Est0703	LOA	11.462m	
Sail Nr	EST 703		Offset File	SAL38TK_c.rud.	MB	3.578m	
			Displacement	6,331kg	Draft	2.046m	
CLASS		IMS Division Cruiser/Racer Dynamic All. 0.138%					
Class	Salona 38 ibc	Fwd Accom.	Yes	Construction	Cored		
Designer	Jakopin & Jakopin	Fiber Rigging	No	Aramid Core	No		
Builder	AD Boats	Crew Arm Ex		Carbon Rudder	Yes		
Series	05/2011, CIN HR-ADB38031C313	Light Stanchions					
Age Date	03/2013	IMSL	10.430m	VCGD	-0.015m	Sink	21.07kg/mm
Age Allowance	0.228%	RL	9.047m	VCGM	0.027m	WS	27.94m²
COMMENTS		LSM0	10.399m	Displacement/Length ratio			5.6299
		Water Ballast	0	Trim Tab	No		
		BLR Index	0.0000				
PROPELLER		CENTERBOARD					
Installation	Strut	PRD	0.415	N/A			
Type	Folding 2 blades	PBW	0.105				
		PIPA	0.0035				
SCORING OPTIONS							
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD			
Time on Distance	585.2			653.4			
Time on Time	1.0253			1.0330			
Triple Number	Low	Medium	High	Low	Medium	High	
Time on Distance	691.3	533.3	477.1	890.5	655.5	570.9	
Time on Time	0.9764	1.2658	1.4149	0.7580	1.0297	1.1823	

BOAT	
Name Credit 24 Reval Cafe	Sail Nr EST 703
File Est0703	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 06/06/2017		SG 1.0000	
FFM 1.367	FF 1.377	SFFP 0.300	
FAM 1.110	FA 1.117	SAFP 10.260	
W1 80.1	PD1 203.0	WD 11.040	
W2 80.1	PD2 202.0	GSA 12.6	
W3 80.1	PD3 204.0	RSA 4298.7	
W4 80.1	PD4 203.0	PLM 2005.0	
LCF from stem on CL / on sheer		6.263 / 6.501	
Maximum beam station from stem		7.100	
RM Measured		152.4kg·m	
RM Default		156.7kg·m	
Limit of positive stability / Stab.Index		118.7° / 121.4	
Freeboard at mast at 4.200		1.208	



2018
Measurements
Datasheet

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 No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 13.650	E 5.150	MDT1 0.110	MW 0.194
IG 15.064	J 4.200	MDL1 0.194	GO 0.201
ISP 15.960	SFJ	MDT2 0.104	BD 0.240
BAS 1.766	SPL 4.390	MDL2 0.174	MWT 107.50
FSP 0.070	TPS	TL 0.120	MCG 5.140

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.415		
Type Folding 2 blades	PBW 0.105		
Twin Screw No	PIPA 0.0035		
ST1 0.042	ST3 0.180	ST5 0.285	
ST2 0.180	ST4 0.112	EDL 2.400	

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					
3a	0.330	1.30	2.06	3.38	4.37	43.01				Unknown	P13.65;E5,15					
HEADSAILS (8)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
9	0.14	0.91	1.62	2.63	3.59	4.54	14.78	108%	37.26	Y		SLO 03	08/06/2018	OneSails	Unknown	Unknow
8	0.11	0.81	1.48	2.63	3.63	4.51	14.75	107%	36.71	Y		SLO 03	08/06/2017	OneSails	Unknown	JibTop
6	0.11	0.82	1.53	2.63	3.49	4.48	14.73	107%	36.26	Y		ITA 73	01/06/2016	OneSails	Unknown	Twaron Jib 1 2016
5b	0.09	0.82	1.52	2.55	3.47	4.47	14.80	106%	36.04	Y		EST 1	29/07/2015	North	Unknown	Unknow
7	0.11	0.70	1.31	2.39	3.37	4.40	14.73	105%	34.13	Y		ITA 73	01/06/2016	OneSails	Unknown	Jib 2 2016
1	0.10	0.77	1.35	2.38	3.33	4.33	14.76	103%	34.08			D206	16/03/2013		Unknown	Light
SYMMETRIC SPINNAKERS (5)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
7	16.36	16.36	16.36	8.85	8.02	118.39	EST 1	20/05/2015	HT Sail	Unknown	S2					
9	16.38	16.38	16.38	8.58	7.91	115.29	SLO 03	10/05/2016	OneSails	Nylon						
4	15.67	15.67	15.67	8.40	7.83	108.20	EST 1	26/05/2014	UK	Unknown	S2 Medium					
10	14.99	14.99	14.99	8.35	8.02	103.48	SLO 03	08/06/2017	OneSails	Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY				
Measurer Arvet Tetsmann EST 1				
Date 06/06/2017				
Comment				
Id	Item	Weight	Distance	VCG Description
1	Engine			YANMAR 3YM20
Id	Item	Weight	Distance	VCG Description

MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condn Description
1	Tank	Fuel	St. Steel	100.0	5.40		40-0
2	Tank	Water	St. Steel	100.0	5.40		0-0
Id	Item	Weight	Distance	VCG Description			
1	Battery	21.9	6.35				
2	Battery	21.9	6.50				



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ORC Club Certificate Appendix

BOAT			
Name	Credit 24 Reval Cafe	Certificate Number	EST703
Sail Nr	EST 703	Issued On	6/13/2018

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1028.0	849.1	746.9	702.0	684.5	677.6	664.2
52°	674.3	564.6	509.0	488.1	480.6	477.2	472.2
60°	638.8	538.1	494.0	475.8	467.5	463.6	460.0
75°	612.3	520.7	483.6	464.9	451.8	443.2	436.3
90°	618.8	516.7	478.8	462.9	446.3	431.3	410.1
110°	610.7	505.4	466.9	444.1	428.7	417.0	397.2
120°	624.9	514.4	470.9	445.0	420.8	401.3	378.8
135°	688.7	557.0	490.7	461.0	436.4	411.5	364.5
150°	810.9	648.2	546.9	489.9	462.4	439.7	394.8
Run VMG	936.4	748.5	631.5	557.6	509.9	475.7	431.0
Selected Courses							
Windward / Leeward	982.2	798.8	689.2	629.8	597.2	576.6	547.6
Circular Random	830.1	669.9	584.5	535.5	505.5	485.8	459.8
Coastal / Long Distance	977.6	749.9	622.2	552.1	515.5	486.7	440.7
Non Spinnaker	895.8	716.5	619.1	562.0	526.7	503.6	473.7

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	42.9°	41.5°	40.9°	39.8°	39.0°	38.8°	39.1°
Beat VMG	3.50	4.24	4.82	5.13	5.26	5.31	5.42
52°	5.34	6.38	7.07	7.38	7.49	7.54	7.62
60°	5.64	6.69	7.29	7.57	7.70	7.77	7.83
75°	5.88	6.91	7.44	7.74	7.97	8.12	8.25
90°	5.82	6.97	7.52	7.78	8.07	8.35	8.78
110°	5.89	7.12	7.71	8.11	8.40	8.63	9.06
120°	5.76	7.00	7.64	8.09	8.56	8.97	9.50
135°	5.23	6.46	7.34	7.81	8.25	8.75	9.88
150°	4.44	5.55	6.58	7.35	7.78	8.19	9.12
Run VMG	3.84	4.81	5.70	6.46	7.06	7.57	8.35
Gybe Angles	142.1°	148.8°	149.6°	156.5°	172.3°	180.0°	180.0°