

BOAT Name REVAL CAFE ELISA Sail Nr EST 703	GPH 601,3	HULL Length Overall 11,462m Maximum Beam 3,578m Displacement 6 304kg Draft 2,332m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,149% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Yes Crew Arm Extension IMSL 10,403m VCGD -0,055m Sink 21,00kg/mm RL 9,282m VCGM -0,006m WS 28,64m² LSM0 10,362m Displacement/Length ratio 5,6661
GENERAL Class Salona 38 ibc Designer Jakopin & Jakopin Builder AD Boats Series 05.2011, CIN HR-ADB38031C313 Age 03.2013 Age Allowance 0,163% Offset File SALONA38BK2cr.off - 15.05.2016 Measurement by Rosme/Tetsmann - 16.06.2016		



2016
ORC International
Certificate

Rating Office EYU Regati 1 11911 Estonia

SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	583,3			650,8		
Time On Time	1,0285			1,0372		
Performance Line	PLT 0,690	PLD 33,2	PLT 0,845	PLD 182,5		
	Low	Medium		Low	Medium	High
Triple Number	0,9696	1,2711	1,4422	0,7470	1,0298	1,2062

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1046,7	862,2	754,0	693,1	667,3	653,9	636,8
52°	680,5	567,8	506,4	481,1	471,6	466,6	460,4
60°	638,5	535,7	489,2	468,4	457,9	452,5	447,6
75°	603,7	512,6	477,1	456,9	440,7	429,2	420,2
90°	606,6	511,3	472,9	457,9	440,2	422,4	396,9
110°	611,5	505,3	465,8	440,2	424,5	412,7	391,6
120°	628,1	515,9	471,7	445,2	418,6	397,8	375,3
135°	694,2	561,6	492,8	462,6	438,1	413,2	364,3
150°	822,6	654,5	551,5	492,1	463,9	441,3	396,0
Run VMG	949,9	755,8	636,8	560,5	511,2	476,4	431,7

Certificate Number EST703 ORC Ref EST00001143 Issued On 17.06.2016 VPP Ver. 2016 1.01 Valid until 31.12.2016

Crew Weight Declared 851kg Default* 724kg Non Manual Pwr No
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Special Scoring ToD ToT Double H.GPH 605,1 0,9915 Double H.OSN 588,7 1,0191 Non Spin GPH 636,1 0,9432 Non Spin OSN 616,6 0,9731 N/S Perf. Line 3,4 0,605

Sails Limitations Headsails 6 Spinnakers 3

Class Division Length CDL = 9,843
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Storm Sails Areas Heavy Weather Jib 30,74 Storm Jib (JL=9,81) 11,38 Storm Trysail 12,91
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Selected Courses							
Windward / Leeward	998,3	809,0	695,4	626,8	589,3	565,1	534,2
Circular Random	834,1	671,1	583,1	531,5	499,3	477,7	449,3
Ocean for PCS	1021,9	787,1	654,2	572,6	519,7	482,9	432,3
Non Spinnaker	896,2	715,2	616,0	556,9	519,8	495,3	464,0

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	43,5°	42,0°	41,8°	39,9°	38,9°	38,2°	37,4°
Beat VMG	3,44	4,18	4,77	5,19	5,39	5,51	5,65
52°	5,29	6,34	7,11	7,48	7,63	7,71	7,82
60°	5,64	6,72	7,36	7,69	7,86	7,96	8,04
75°	5,96	7,02	7,54	7,88	8,17	8,39	8,57
90°	5,93	7,04	7,61	7,86	8,18	8,52	9,07
110°	5,89	7,13	7,73	8,18	8,48	8,72	9,19
120°	5,73	6,98	7,63	8,09	8,60	9,05	9,59
135°	5,19	6,41	7,30	7,78	8,22	8,71	9,88
150°	4,38	5,50	6,53	7,32	7,76	8,16	9,09
Run VMG	3,79	4,76	5,65	6,42	7,04	7,56	8,34
Gybe Angles	140,9°	148,8°	149,6°	156,4°	172,3°	180,0°	180,0°

BOAT			
Name	REVAL CAFE ELISA	Sail Nr	EST 703
File	Est0703.dxt	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	No			Main Furler	No		
Lenticular Rigging	No			Without Backstay	No		
Articulated Bowsprit	No						
P	14,050	E	5,250	MDT1	0,110	MW	0,194
IG	15,064	J	4,200	MDL1	0,194	GO	0,201
ISP	16,020	SFJ		MDT2	0,104	BD	0,240
BAS	1,766	SPL	4,390	MDL2	0,174	MWT	107,50
FSP	0,070	TPS		TL	0,520	MCG	5,140

MIZZEN RIG AND SAILS	
	N/A

COMMENTS	
Boat weight - owners declaration	

INCLINING TEST AND FREEBOARDS					
Inclining Test		Current Inclining			
Flotation date		16.06.2016		SG	1,000
FFM	1,377	FF	1,387	SFFP	0,300
FAM	1,110	FA	1,117	SAFP	10,260
W1	80,000	PD1	182,0	WD	10,100
W2	80,000	PD2	184,0	GSA	12,6
W3	80,000	PD3	182,0	RSA	4298,7
W4	80,000	PD4	184,0	PLM	2005,0
LCF from stem on CL / on sheer				6,263 / 6,505	
Maximum beam station from stem				7,100	
RM Measured				154,5kg-m	
RM Default				158,2kg-m	
Limit of positive stability / Stab.Index				120,5° / 123,1°	
Freeboard at mast at 4,200				1,215	

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	2,030

MOVEABLE BALLAST
N/A

CENTERBOARD	
	N/A

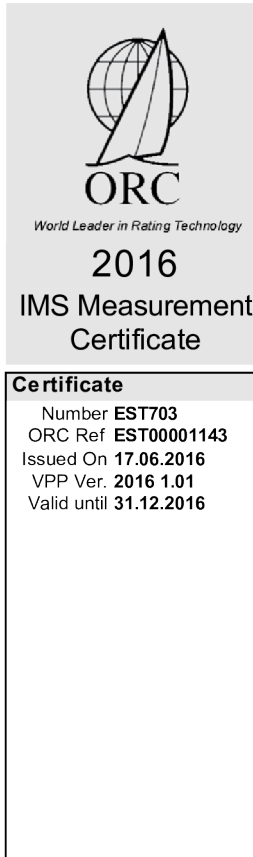
SAILS (Maximum Areas)								
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula
	0,340	1,24	2,07	3,43	4,46	44,86	46,01	$P/8 \cdot (E + 2 \cdot MQW + 2 \cdot MHW + 1.5 \cdot MTW + MUW + 0.5 \cdot MHB)$
Symmetric	SLU	SLE	SL	SHW	SFL			
	16,36	16,36	16,36	8,85	8,02	118,39		$SL \cdot (SFL + 4 \cdot SHW) / 6$
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
0,11	0,82	1,53	2,63	3,49	4,48	14,73	36,26	Y		01.06.2016	Twaron	Jib 1 2016
0,09	0,82	1,52	2,55	3,47	4,47	14,80	36,04	Y		29.07.2015	Unknow	
0,11	0,70	1,31	2,39	3,37	4,40	14,73	34,13	Y		01.06.2016	Unknow	Jib 2 2016
0,10	0,77	1,35	2,38	3,33	4,33	14,76	34,08			16.03.2013	Unknow	Light
0,10	0,68	1,24	2,27	3,25	4,29	14,76	32,93			15.04.2013	Unknow	Medium/heavy y
0,10		1,10	2,12	3,13	4,12	14,35	30,28			20.03.2012	Dacron	Heavy

MEASUREMENT INVENTORY				
Measurer Arvet Tetsmann EST 1 Date 16.06.2016 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>
1	Engine	YANMAR		3YM20
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>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>
1	Tank	Fuel	St. Steel	100,0	5,40		10,0
2	Tank	Water	St.Steel	100,0	5,40		0,0

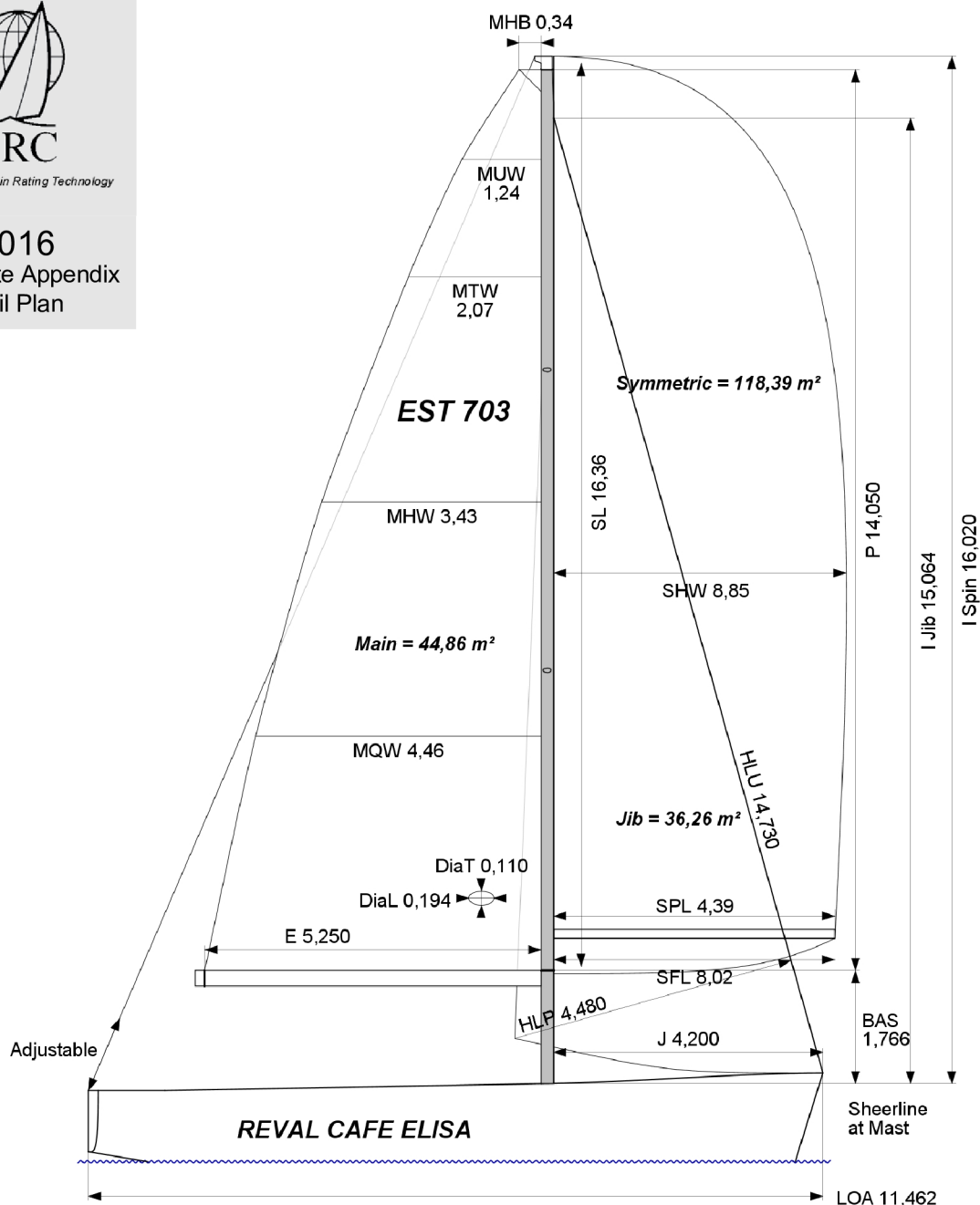
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i> <i>Description</i>
1	Battery	21,9	6,35	
2	Battery	21,9	6,50	





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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3	0,340	1,24	2,07	3,43	4,46	44,86	ITA 73	03.06.2016	OneSails	Carbon	2016					
HEADSAILS																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
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	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	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	Unknow	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		Unknow	Light
3	0,10	0,68	1,24	2,27	3,25	4,29	14,76	102%	32,93			D206	15.04.2013		Unknow	Medium/heav y
4	0,10		1,10	2,12	3,13	4,12	14,35	98%	30,28			D206	20.03.2012		Dacron	Heavy
SYMMETRIC SPINNAKERS																
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	One Sails	Nylon						
4	15,67	15,67	15,67	8,40	7,83	108,20	EST 1	26.05.2014	UK	Unknown	S2 Medium					
8	15,10	15,10	15,10	7,69	6,88	94,73	SLO 03/BG	10.07.2015	OneSail	Unknown	S3					
ASYMMETRIC SPINNAKERS																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				