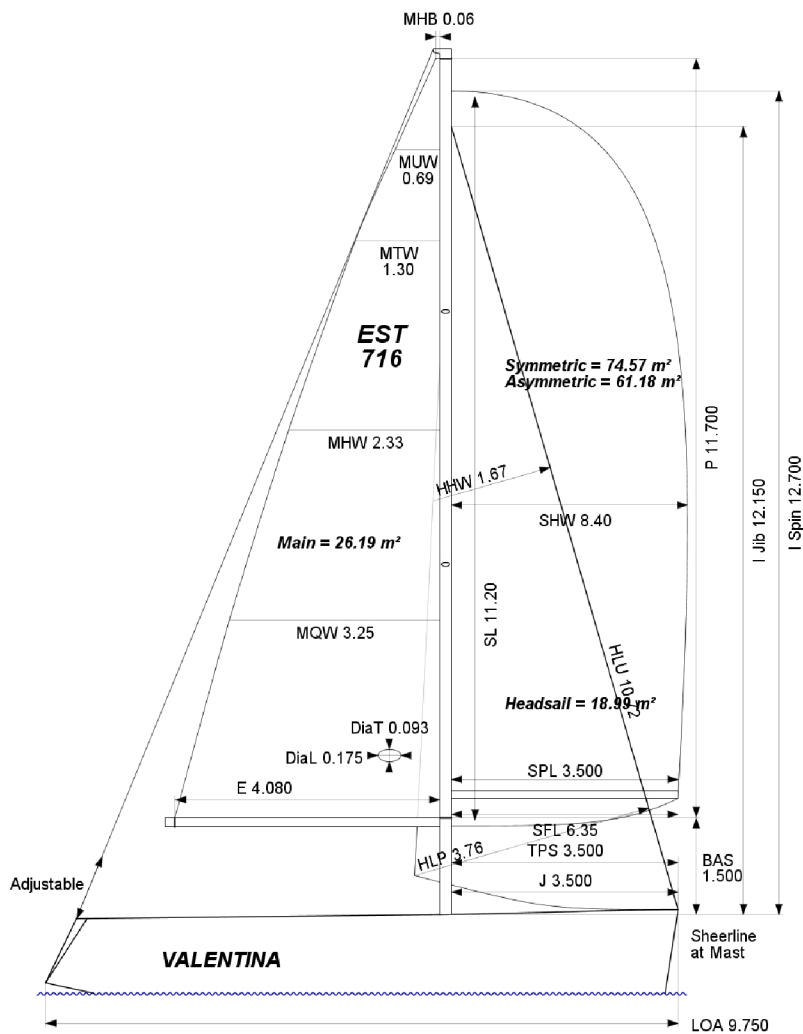




BOAT		GPH		HULL				
Name	Valentina	708.3	Data File	EST716	LOA	9.750m		
Sail Nr	EST716		Offset File	BAV32cr.OFF	MB	3.428m		
			Displacement	5,600kg	Draft	1.897m		
CLASS				IMS Division	Cruiser/Racer	Dynamic All.	0.428%	
	Class	Bavaria 32 CR	Plan Review		Construction	Cored		
	Designer	Farr	Fiber Rigging	No	Aramid Core	No		
	Builder	Bavaria	Crew Arm Ex		Carbon Rudder	No		
	Series	01/2009			Light Stanchions	No		
	Age Date	01/2009		IMSL	9.038m	VCGD	-0.100m Sink	18.01kg/mm
	Age Allowance	0.357%		RL	5.861m	VCGM	-0.142m WS	24.00m
COMMENTS				LSM0	9.079m	Displacement/Length ratio		7.4830
				Water Ballast	0	Trim Tab	No	
				BLR Index	0.0000			
PROPELLER				CENTERBOARD				
Installation	Strut	PRD	0.380	N/A				
Type	Folding 2 blades	PIPA	0.0006					

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	686.1			767.5		
Time on Time	0.8745			0.8794		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	833.6	624.3	534.3	1084.9	783.1	640.0
Time on Time	0.8097	1.0812	1.2633	0.6222	0.8620	1.0547



Rating Office
Estonian Yachting Union
 Purje 8, maja 3
 11911 Tallinn
 Estonia



Certificate
 Number 098/20
 Issued On 02/07/2020
 ORC Ref 03880000LST
 VPP Ver. 2020 1.02
 Valid until 31/12/2020

Crew Weight
 Default 600kg
 Maximum 500kg
 Minimum* 375kg
 *when applied by the NoR and SI
 Non Manual Pwr No

Special Scoring
 ToD ToT
 Non Spin GPH 760.0 0.7895
 Non Spin OSN 731.6 0.8201

Sails Limitations
 Headsails 5 Spinnakers 4
 Woven Polyester
 Asymmetric on centerline
Spinnaker configuration
 Symmetric: Yes 74.57
 Asymmetric: Yes 61.18
 Flying H/S: No
 Spin. Pole: Yes

Class Division Length
 CDL = 7.444

Stability (Estimated)
 Limit Positive Stab.: 129.9°
 Stability Index: 131.7

BOAT Name Valentina Sail Nr EST716 File EST716 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Enter VCG directly Flotation date 02/07/2020 SG 1.0249 VCGDe -0.100														
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast No Jib Furler Yes Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No		FFM 1.290 FF 1.290 SFFP 0.214 FAM 1.151 FA 1.151 SAFF 9.114 LCF from stem on CL / on sheer 5.230 / 5.476 Maximum beam station from stem 6.555 RM Measured 139.0kg·m RM Default 113.3kg·m Limit of positive stability / Stab.Index 129.9° / 131.7 Freeboard at mast at 3.500 1.216														
MIZZEN RIG AND SAILS N/A		PROPELLER Installation Strut PRD 0.380 Type Folding 2 blades PBW Twin Screw PIPA 0.0006 ST1 ST3 ST5 ST2 ST4 EDL														
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	0.06	0.69	1.30	2.33	3.25	26.20										
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.05	0.40	0.79	1.67	2.68	3.76	10.72	107%	18.99		No					
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	11.20	11.20	11.20	8.40	6.35	74.58	EST1	16/06/1999		Unknown						
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	12.40	11.32	11.86	6.18	6.23	61.18	asym				Unknown					



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2020
Measurements
Datasheet



EJL
ESTONIAN
YACHTING
UNION

Certificate
 Number **098/20**
 ORC Ref **03880000LST**
 Issued On **02/07/2020**
 VPP Ver. **2020 1.02**
 Valid until **31/12/2020**

2020

ORC Club Certificate Appendix

BOAT			
Name	Valentina	Certificate Number	098/20
Sail Nr	EST716	Issued On	02/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1322.0	1081.5	957.8	872.2	802.1	754.6	729.4
52°	850.3	708.5	630.9	577.0	544.8	526.1	510.8
60°	797.9	670.2	596.7	552.5	528.6	513.3	496.2
75°	759.9	635.5	562.5	526.9	510.0	501.3	479.1
90°	712.6	591.2	530.6	504.6	488.0	475.8	463.7
110°	698.4	576.7	522.7	497.0	476.2	456.5	428.4
120°	718.3	591.3	529.1	501.2	479.6	458.3	420.8
135°	790.0	647.0	557.3	517.4	494.4	473.6	433.2
150°	935.9	741.0	626.7	553.1	517.7	496.2	457.4
Run VMG	1080.6	855.6	723.0	631.8	570.1	528.8	485.9
Selected Courses							
Windward / Leeward	1201.3	968.6	840.4	752.0	686.1	641.7	607.6
Circular Random	995.4	796.5	686.8	620.1	576.9	547.9	513.2
Coastal / Long Distance	1189.3	904.5	749.1	647.9	586.9	543.9	489.3
Non Spinnaker	1089.4	862.8	735.6	657.2	606.2	572.1	532.4

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	45.0°	43.5°	42.4°	42.4°	41.6°	40.1°	40.1°
Beat VMG	2.72	3.33	3.76	4.13	4.49	4.77	4.94
52°	4.23	5.08	5.71	6.24	6.61	6.84	7.05
60°	4.51	5.37	6.03	6.52	6.81	7.01	7.25
75°	4.74	5.66	6.40	6.83	7.06	7.18	7.51
90°	5.05	6.09	6.79	7.13	7.38	7.57	7.76
110°	5.16	6.24	6.89	7.24	7.56	7.89	8.40
120°	5.01	6.09	6.80	7.18	7.51	7.85	8.56
135°	4.56	5.56	6.46	6.96	7.28	7.60	8.31
150°	3.85	4.86	5.74	6.51	6.95	7.26	7.87
Run VMG	3.33	4.21	4.98	5.70	6.32	6.81	7.41
Gybe Angles	147.0°	151.0°	151.0°	156.0°	174.0°	180.0°	180.0°