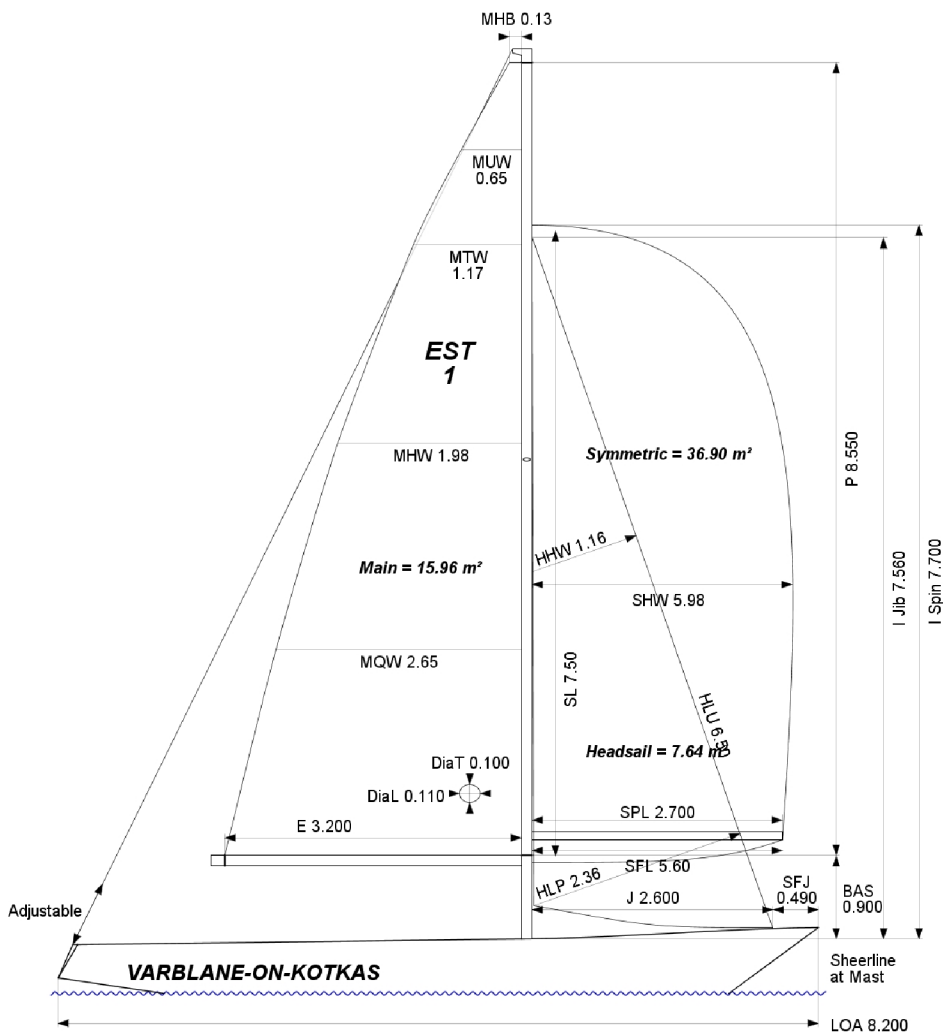




BOAT		GPH	HULL		
Name VARBLANE-ON-KOTKAS		702.3	Data File EST 1	LOA 8.200m	
Sail Nr EST 1			Offset File SOLING.OFF	MB 1.904m	
			Displacement 1,057kg	Draft 1.305m	
CLASS Class SOLING Designer LINGE Builder Series 01/1966 Age Date Age Allowance 0.487%		IMS Division Sportboat		Dynamic All. 0.186%	
		Plan Review		Construction Solid	
		Fiber Rigging No		Aramid Core No	
		Crew Arm Ex		Carbon Rudder No	
				Light Stanchions No	
		IMSL 6.661m	VCGD -0.400m	Sink 6.87kg/mm	
		RL 6.662m	VCGM -0.356m	WS 9.93m	
		LSM0 6.067m Displacement/Length ratio			
COMMENTS		Water Ballast			Trim Tab No
		BLR Index 0.0000			
PROPELLER		CENTERBOARD			
Type No Propeller		N/A			

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	678.8			761.1		
Time on Time	0.8839			0.8869		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	820.7	619.4	533.5	1070.4	764.4	653.7
Time on Time	0.8225	1.0897	1.2653	0.6306	0.8830	1.0326



2020
ORC Club
Certificate

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



Certificate
Number **056/20**
Issued On **11/06/2020**
ORC Ref **03880000KHK**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight
Default **337kg**
Maximum **400kg**
Minimum* **300kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **748.1 0.8020**
Non Spin OSN **720.7 0.8325**

Sails Limitations
Headsails **5** Spinnakers **4**
Woven Polyester

Spinnaker configuration
Symmetric: **Yes 36.90**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = **6.656**

Stability (Estimated)
Limit Positive Stab.: **127.8°**
Stability Index: **126.6**

BOAT Name VARBLANE-ON- Sail Nr EST 1 File EST 1 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Enter VCG directly Flotation date 11/06/2020 SG 1.0225 VCGDe -0.400		 ORC Offshore Racing Congress World leader in rating technology 2020 Measurements Datasheet
RIG Forestay Tension Aft Spreaders 1 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No		FFM 0.702 FF 0.703 SFFP 0.478 FAM 0.517 FA 0.517 SAFF 7.985 LCF from stem on CL / on sheer 4.342 / 4.444 Maximum beam station from stem 4.410 RM Measured 20.1kg·m RM Default 15.8kg·m Limit of positive stability / Stab.Index 127.8° / 126.6 Freeboard at mast at 3.090 0.589		
MIZZEN RIG AND SAILS N/A		PROPELLER Type No Propeller		
COMMENTS 		MOVABLE BALLAST N/A		
		CENTERBOARD N/A		 ESTONIAN YACHTING UNION

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
M1	0.13	0.65	1.17	1.98	2.65	15.96										
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
J1	0.04	0.30	0.58	1.16	1.76	2.36	6.50	91%	7.64	Y	No					
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
S1	7.50	7.50	7.50	5.98	5.60	36.90										
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2020

ORC Club Certificate Appendix

BOAT

Name **VARBLANE-ON-KOTKAS** Certificate Number **056/20**
Sail Nr **EST 1** Issued On **11/06/2020**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1270.5	1030.7	896.5	818.1	786.1	777.5	774.4
52°	823.9	673.9	610.4	581.8	564.1	556.3	552.7
60°	774.2	640.8	592.7	566.4	544.4	531.9	524.9
75°	738.6	619.6	578.5	549.6	521.4	499.0	479.3
90°	693.0	590.4	549.7	526.5	510.1	486.0	437.7
110°	685.7	584.0	535.8	493.1	461.2	440.4	399.9
120°	713.4	594.1	545.2	499.0	455.7	414.9	365.2
135°	808.6	645.5	573.5	529.9	487.6	444.8	345.0
150°	961.0	754.3	632.0	571.0	531.0	492.6	408.0
Run VMG	1109.7	871.0	728.6	640.5	583.9	546.1	475.1
Selected Courses							
Windward / Leeward	1190.1	950.9	812.5	729.3	685.0	661.8	624.7
Circular Random	983.0	787.7	681.0	617.0	575.5	546.1	503.6
Coastal / Long Distance	1182.0	889.7	732.3	639.6	587.9	546.3	475.8
Non Spinnaker	1064.6	844.5	723.7	651.6	605.9	575.0	533.9

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	43.7°	43.1°	41.6°	38.6°	37.3°	37.1°	37.3°
Beat VMG	2.83	3.49	4.02	4.40	4.58	4.63	4.65
52°	4.37	5.34	5.90	6.19	6.38	6.47	6.51
60°	4.65	5.62	6.07	6.36	6.61	6.77	6.86
75°	4.87	5.81	6.22	6.55	6.90	7.21	7.51
90°	5.19	6.10	6.55	6.84	7.06	7.41	8.23
110°	5.25	6.16	6.72	7.30	7.81	8.17	9.00
120°	5.05	6.06	6.60	7.21	7.90	8.68	9.86
135°	4.45	5.58	6.28	6.79	7.38	8.09	10.44
150°	3.75	4.77	5.70	6.30	6.78	7.31	8.82
Run VMG	3.24	4.13	4.94	5.62	6.17	6.59	7.58
Gybe Angles	146.0°	149.0°	151.0°	163.0°	180.0°	180.0°	180.0°