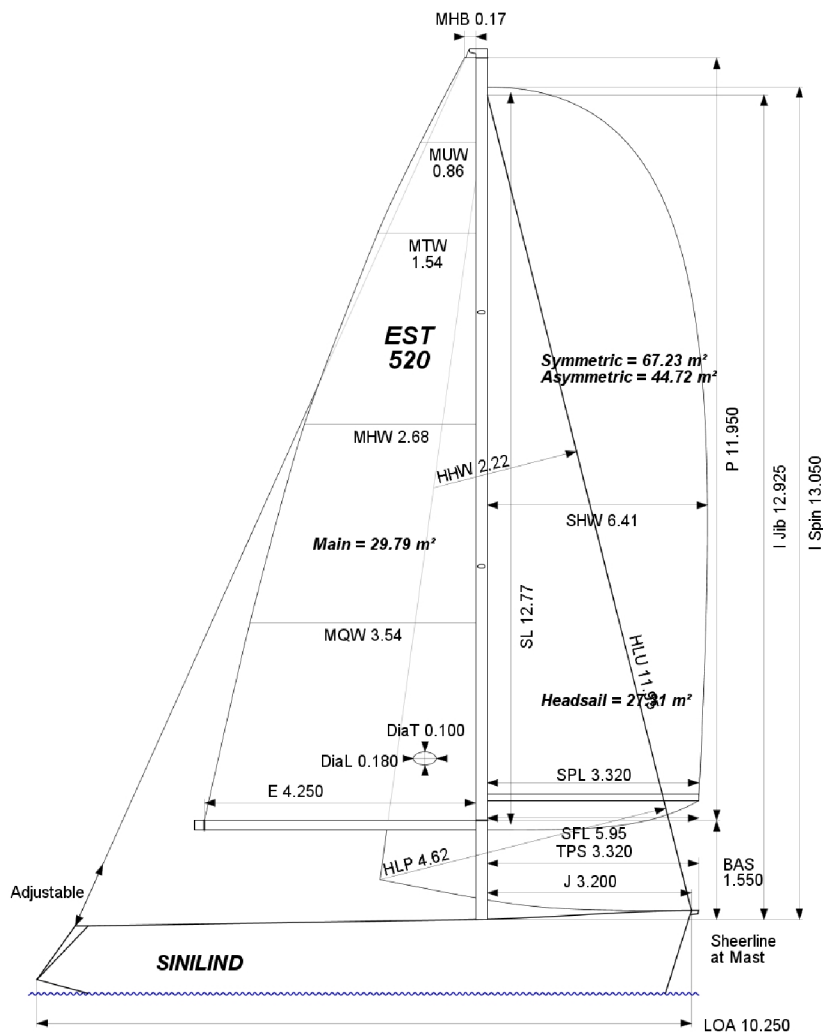




BOAT		GPH		HULL			
Name	SINILIND	677.4	Data File	EST520	LOA	10.250m	
Sail Nr	EST-520		Offset File	MBAV33C.OFF	MB	3.485m	
			Displacement	5,680kg	Draft	1.802m	
CLASS			IMS Division	Cruiser/Racer	Dynamic All.	0.393%	
	Class	Bavaria 33 CR	Plan Review		Construction	Solid	
	Designer	J & J	Fiber Rigging	No	Aramid Core	No	
	Builder	Bavaria Yachtbau	Crew Arm Ex		Carbon Rudder	No	
	Series	01/1993			Light Stanchions	No	
	Age Date	05/2006	IMSL	9.310m	VCGD	0.000m Sink 18.75kg/mm	
	Age Allowance	0.487%	RL	7.136m	VCGM	-0.032m WS 24.87m	
COMMENTS			LSM0	9.313m	Displacement/Length ratio 7.032		
			Water Ballast	0	Trim Tab	No	
			BLR Index	0.0000			
PROPELLER			CENTERBOARD				
Installation	Strut	PRD					
Type	Folding 2 blades	PIPA	N/A				

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	656.8			734.2		
Time on Time	0.9135			0.9193		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	790.1	597.1	523.1	1027.1	743.4	627.6
Time on Time	0.8543	1.1304	1.2905	0.6572	0.9080	1.0756



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



Certificate
 Number **041/20**
 Issued On **05/06/2020**
 ORC Ref **03880000K03**
 VPP Ver. **2020 1.02**
 Valid until **31/12/2020**

Crew Weight
 Default **622kg**
 Maximum **550kg**
 Minimum* **413kg**
 *when applied by the NoR and SI
 Non Manual Pwr **No**

Special Scoring
 ToD ToT
 Non Spin GPH **711.7 0.8431**
 Non Spin OSN **687.0 0.8733**

Sails Limitations
 Headsails **5** Spinnakers **4**
Asymmetric on centerline
Spinnaker configuration
 Symmetric: **Yes 67.23**
 Asymmetric: **Yes 50.88**
 Flying H/S: **No**
 Spin. Pole: **Yes**

Class Division Length
CDL = 8.221

Stability (Estimated)
 Limit Positive Stab.: **119.9°**
 Stability Index: **121.5**

BOAT Name SINILIND Sail Nr EST-520 File EST520 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Enter VCG directly Flotation date 05/06/2020 SG 1.0251 VCGDe 0.000 FFM 1.297 FF 1.297 SFFP 0.220 FAM 1.057 FA 1.057 SAFFP 9.454 LCF from stem on CL / on sheer 5.505 / 5.766 Maximum beam station from stem 6.260 RM Measured 137.2kg·m RM Default 117.6kg·m Limit of positive stability / Stab.Index 119.9° / 121.5 Freeboard at mast at 3.200 1.163	
RIG Forestay Tension Aft Spreaders 2 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 P 11.950 E 4.250 MDT1 0.100 MW 0.000 IG 12.925 J 3.200 MDL1 0.180 GO 0.000 ISP 13.050 SFJ 0.000 MDT2 0.000 BD BAS 1.550 SPL 3.320 MDL2 0.000 MWT FSD -3.000 TPS 3.320 TL -3.000 MCG			
MIZZEN RIG AND SAILS N/A		PROPELLER Installation Strut PRD 0.408 Type Folding 2 blades PBW Twin Screw No PIPA 0.0007 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	0.17	0.86	1.54	2.68	3.54	29.80	EST7	01/04/2020	NS	Dacron						
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
4	0.11	0.63	1.14	2.22	3.40	4.62	11.95	144%	27.31		No	EST7	01/04/2020	North Sails	Dacron	
3	0.09	0.52	1.00	2.02	3.13	4.32	11.74	135%	24.58		No	EST7	01/04/2020	North Sails	Unknow	
1	0.11	0.55	0.96	1.84	2.80	3.77	12.03	118%	22.70	N	No	EST7	01/04/2020	Quantum	Dacron	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	12.77	12.77	12.77	6.41	5.95	67.24	EST7	01/04/2020	North Sails	Nylon						
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	12.17	11.10	11.64	4.33	5.74	44.72	asy76				Unknown					



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2020
Measurements
Datasheet



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ESTONIAN
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2020

ORC Club Certificate Appendix

BOAT			
Name	SINILIND	Certificate Number	041/20
Sail Nr	EST-520	Issued On	05/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1190.9	985.5	870.6	790.5	746.7	731.9	732.6
52°	767.9	648.8	577.7	539.4	520.8	511.9	508.7
60°	722.8	614.1	553.0	524.0	508.1	498.3	492.3
75°	685.6	578.4	527.9	504.8	490.3	481.0	466.4
90°	664.6	559.3	514.8	492.7	475.1	459.4	438.1
110°	695.4	574.7	518.6	492.5	471.6	451.6	423.4
120°	720.0	592.1	526.1	497.2	475.8	454.6	416.6
135°	796.4	647.4	558.1	514.9	491.2	470.4	429.7
150°	935.2	738.3	626.8	552.9	514.8	492.5	453.5
Run VMG	1079.9	852.4	722.0	632.2	567.8	524.9	481.1
Selected Courses							
Windward / Leeward	1135.4	918.9	796.3	711.3	657.2	628.4	606.9
Circular Random	944.5	758.3	656.7	596.4	558.8	534.7	507.3
Coastal / Long Distance	1129.8	860.3	712.4	617.4	566.4	532.2	481.6
Non Spinnaker	1006.3	802.0	689.2	621.5	579.0	551.8	520.4

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	44.6°	42.8°	42.0°	41.3°	40.1°	39.6°	39.8°
Beat VMG	3.02	3.65	4.14	4.55	4.82	4.92	4.91
52°	4.69	5.55	6.23	6.67	6.91	7.03	7.08
60°	4.98	5.86	6.51	6.87	7.09	7.22	7.31
75°	5.25	6.22	6.82	7.13	7.34	7.48	7.72
90°	5.42	6.44	6.99	7.31	7.58	7.84	8.22
110°	5.18	6.26	6.94	7.31	7.63	7.97	8.50
120°	5.00	6.08	6.84	7.24	7.57	7.92	8.64
135°	4.52	5.56	6.45	6.99	7.33	7.65	8.38
150°	3.85	4.88	5.74	6.51	6.99	7.31	7.94
Run VMG	3.33	4.22	4.99	5.69	6.34	6.86	7.48
Gybe Angles	146.0°	151.0°	153.0°	156.0°	174.0°	180.0°	180.0°