

2020 ORC Club Certificate

Rating Office

EYU
Purje 8
11911, Tallinn
Estonia

Certificate

Number **Est959**
Issued On **5/26/2020**
ORC Ref **03580000IVE**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 402kg
Maximum **365kg**
Minimum* **274kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **758.5 0.7910**
Non Spin OSN **732.9 0.8187**

Sails Limitations

Headsails **5** Spinnakers **4**
Woven Polyester

Spinnaker configuration

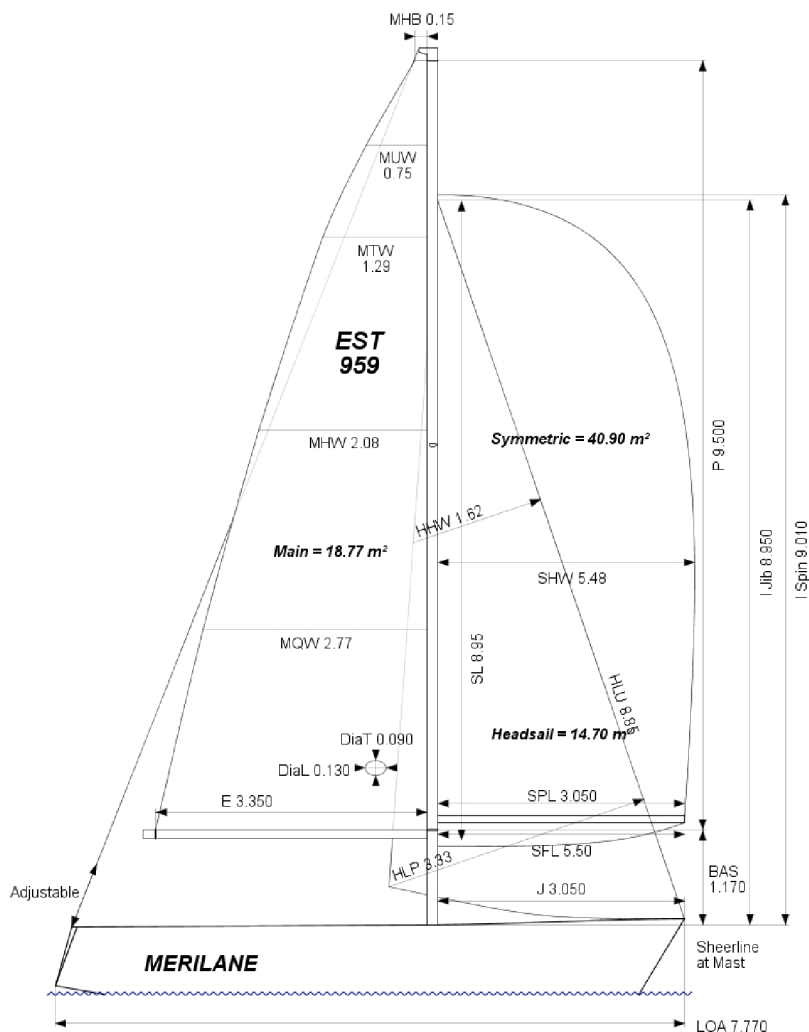
Symmetric: **Yes 40.90**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **6.607**

Stability (Estimated)

Limit Positive Stab.: **122.0°**
Stability Index: **119.1**



BOAT		GPH		HULL		
Name	MERILANE	725.3		Data File	Est0959 LOA 7.770m	
Sail Nr	EST 959			Offset File	L0016.bof MB 2.524m	
				Displacement	1,900kg Draft 1.445m	
CLASS				IMS Division	Sportboat Dynamic All. 0.213%	
Class	ALBIN EXPRESS			Plan Review	Construction Solid	
Designer	PETER NORLIN			Fiber Rigging	No Aramid Core No	
Builder	Albin Marin			Crew Arm Ex	Carbon Rudder No	
Series	01/1978				Light Stanchions No	
Age Date	01/1981			IMSL	6.925m VCGD -0.115m Sink 9.28kg/mm	
Age Allowance	0.487%			RL	6.287m VCGM -0.095m WS 12.76m	
COMMENTS				LSM0	6.858m Displacement/Length ratio	
Kaal koos päramootoriga 27kg				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	704.5			782.6		
Time on Time	0.8516			0.8625		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	826.9	643.7	576.5	1068.0	784.5	688.5
Time on Time	0.8163	1.0486	1.1709	0.6320	0.8604	0.9804

BOAT										INCLINING TEST AND FREEBOARDS									
Name MERILANE					Sail Nr EST 959					Inclining Test Club Estimated VCG									
File Est0959					Data in meters/kilograms					Flotation date 14/10/2019 SG									
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 FF 0.924 SFFP 0.426 FAM FA 0.824 SAFF 7.503					LCF from stem on CL / on sheer 4.227 / 4.380 Maximum beam station from stem 4.626 RM Measured 33.1kg·m RM Default 32.1kg·m Limit of positive stability / Stab.Index 122.0° / 119.1 Freeboard at mast at 3.050 0.853									
P 9.500 E 3.350 MDT1 0.090 MW 0.130 IG 8.950 J 3.050 MDL1 0.130 GO 0.130 ISP 9.010 SFJ 0.090 MDT2 0.090 BD 0.100 BAS 1.170 SPL 3.050 MDL2 0.130 MWT FSD TPS 0.000 TL 0.000 MCG																			
MIZZEN RIG AND SAILS N/A										PROPELLER Type No Propeller									
COMMENTS Kaal koos pāramootoriga 27kg										MOVABLE BALLAST N/A									
										CENTERBOARD N/A									
SAILS INVENTORY																			
MAINSAIL (3)																			
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment								
1	0.15	0.75	1.29	2.08	2.77	18.78	EST7	10/03/2020	WB	Dacron	WB								
2	0.14	0.72	1.27	2.07	2.75	18.63	EST7	10/03/2020	E-sails	Dacron	E-sails								
HEADSAILS (3)																			
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment			
1	0.08	0.46	0.86	1.62	2.46	3.33	8.85	109%	14.70	Y	No	EST7	10/03/2020	WB	Dacron				
2	0.06	0.45	0.87	1.63	2.48	3.23	8.86	106%	14.63	Y	No	EST7	10/03/2020		Dacron				
3	0.04	0.42	0.83	1.61	2.40	3.18	8.69	104%	13.98	Y	No	EST7	10/03/2020	E-sail	Dacron				
SYMMETRIC SPINNAKERS (1)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment								
1	8.95	8.95	8.95	5.48	5.50	40.91	EST7	10/03/2020	WB										
ASYMMETRIC SPINNAKERS (0)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment							



2020 Measurements Datasheet

Certificate

Number **Est959**
 ORC Ref **03580000IVE**
 Issued On **5/26/2020**
 VPP Ver. **2020 1.02**
 Valid until **31/12/2020**

2020

ORC Club Certificate Appendix

BOAT			
Name	MERILANE	Certificate Number	Est959
Sail Nr	EST 959	Issued On	5/26/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1233.6	1029.1	908.5	842.2	821.6	816.7	823.0
52°	806.0	680.9	623.2	597.3	585.5	581.5	582.0
60°	762.1	649.7	606.3	583.9	570.1	563.8	562.1
75°	731.6	629.8	593.4	571.3	552.2	537.1	525.4
90°	719.4	613.5	574.7	552.2	540.2	524.4	494.6
110°	714.8	607.6	568.3	536.2	507.4	487.3	465.3
120°	738.4	619.2	574.8	542.8	510.9	482.5	440.9
135°	818.0	673.3	598.0	564.5	533.2	502.2	443.7
150°	968.9	771.4	654.3	593.6	563.0	533.9	478.0
Run VMG	1118.8	890.7	751.4	658.1	601.1	569.6	514.1
Selected Courses							
Windward / Leeward	1176.2	959.9	829.9	750.1	711.4	693.1	668.6
Circular Random	994.0	805.0	704.0	645.7	610.2	587.2	558.4
Coastal / Long Distance	1170.5	900.6	751.2	664.6	621.7	588.3	531.2
Non Spinnaker	1053.5	846.8	735.2	670.2	630.5	605.1	575.0

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°	40.9°	39.0°	38.3°	38.6°	39.6°
Beat VMG	2.92	3.50	3.96	4.27	4.38	4.41	4.37
52°	4.47	5.29	5.78	6.03	6.15	6.19	6.19
60°	4.72	5.54	5.94	6.17	6.32	6.39	6.40
75°	4.92	5.72	6.07	6.30	6.52	6.70	6.85
90°	5.00	5.87	6.26	6.52	6.66	6.86	7.28
110°	5.04	5.93	6.33	6.71	7.10	7.39	7.74
120°	4.88	5.81	6.26	6.63	7.05	7.46	8.17
135°	4.40	5.35	6.02	6.38	6.75	7.17	8.11
150°	3.72	4.67	5.50	6.06	6.39	6.74	7.53
Run VMG	3.22	4.04	4.79	5.47	5.99	6.32	7.00
Gybe Angles	147.5°	152.0°	153.0°	170.0°	180.0°	180.0°	180.0°