



2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **Est959**
 Issued On **26/05/2020**
 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**

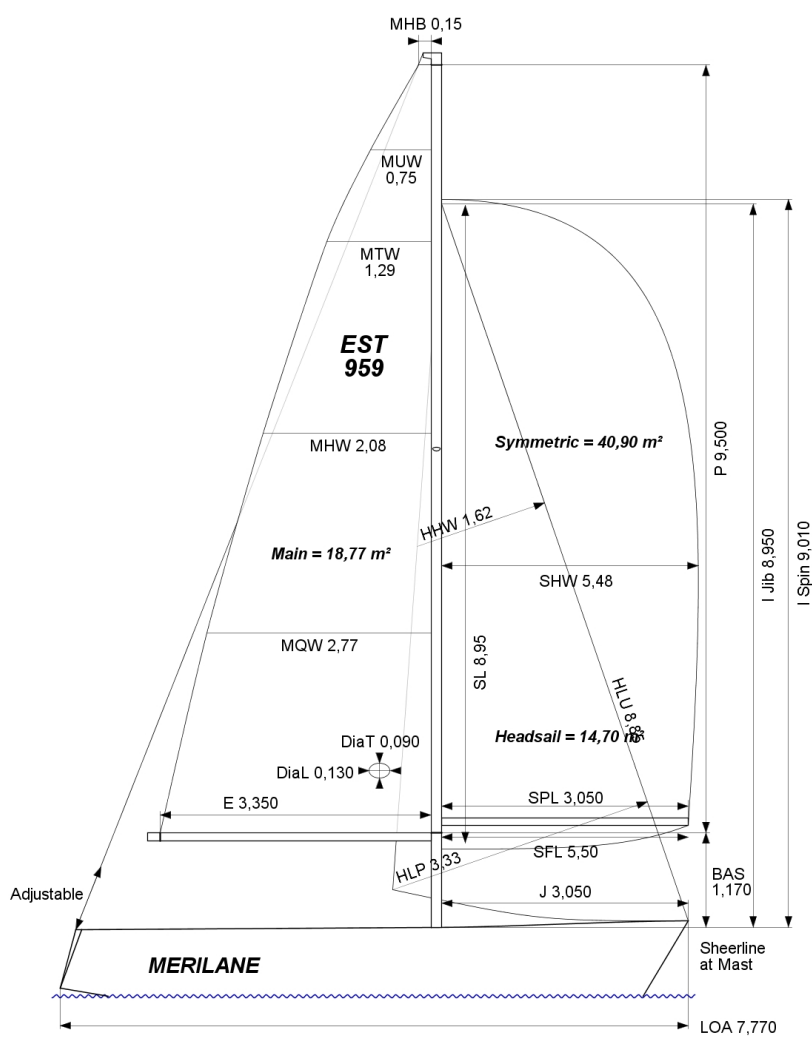
Class Division Length

CDL = **6.607**

Stability (Estimated)

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

Owner



BOAT Name MERILANE Sail Nr EST 959		GPH 725.3	HULL Data File Est0959 LOA 7.770m Offset File L0016.bof MB 2.524m Displacement 1,900kg Draft 1.445m			
CLASS Class ALBIN EXPRESS Designer PETER NORLIN Builder Albin Marin Series 01/1978 Age Date 01/1981 Age Allowance 0.487%		IMS Division Sportboat Dynamic All. 0.213% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		IMSL 6.925m VCGD -0.115m Sink 9.28kg/mm RL 6.287m VCGM -0.095m WS 12.76m² LSM0 6.858m Displacement/Length ratio 5.8906		
COMMENTS Kaal koos pãramootoriga 27kg		Water Ballast 0 Trim Tab No BLR Index 0.0000		CENTERBOARD NA		
PROPELLER Type No Propeller		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

2020

ORC Club Certificate Appendix

BOAT			
Name	MERILANE	Certificate Number	Est959
Sail Nr	EST 959	Issued On	26/05/2020

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°