

BOAT Name MERION Sail Nr EST 400 File EST400 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Enter VCG directly Flotation date 26/05/2020 SG 1.0249 VCGDe -0.150 FFM 1.216 FF 1.216 SFFP 0.142 FAM 1.003 FA 1.003 SAFP 11.381 LCF from stem on CL / on sheer 6.661 / 6.904 Maximum beam station from stem 8.236 RM Measured 188.6kg·m RM Default 169.5kg·m Limit of positive stability / Stab.Index 120.6° / 121.8 Freeboard at mast at 4.655 1.084	
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast Yes Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No P 14.945 E 5.120 MDT1 0.130 MW 0.235 IG 16.385 J 4.530 MDL1 0.235 GO 0.270 ISP 16.600 SFJ 0.125 MDT2 0.130 BD 0.210 BAS 1.820 SPL 4.460 MDL2 0.235 MWT 195.50 FSD 0.032 TPS TL 0.000 MCG 5.430			
MIZZEN RIG AND SAILS N/A		PROPELLER Installation Strut PRD 0.410 Type Folding 2 blades PBW 0.111 Twin Screw No PIPA 0.0040 ST1 0.064 ST3 0.180 ST5 0.290 ST2 0.178 ST4 0.110 EDL 2.210	
COMMENTS TPS6,43		MOVABLE BALLAST N/A	
		CENTERBOARD N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
4	0.31	1.16	1.96	3.31	4.28	45.88		29/04/2019		Unknown						
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
5	0.07	0.72	1.44	2.99	4.60	6.22	16.36	137%	49.84		No	SLO03	19/06/2020		Unknown	
4	0.08	0.75	1.49	3.02	4.56	6.15	15.65	136%	47.66		No		13/07/2012		Unknown	
6	0.08	0.60	1.17	2.36	3.59	4.80	15.82	106%	37.79		No		01/02/2012		Unknown	
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
6	16.10	16.10	16.10	8.57	8.40	114.53		29/04/2019		Unknown	S2					
2	15.85	15.85	15.85	8.17	7.82	106.99		18/05/2010		Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				



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ORC Club Certificate Appendix

BOAT			
Name	MERION	Certificate Number	102/20
Sail Nr	EST 400	Issued On	03/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	930.6	764.9	675.3	641.6	627.2	619.9	611.4
52°	610.2	512.2	471.8	457.6	451.5	448.2	444.8
60°	576.7	492.9	461.0	446.2	439.0	434.7	431.1
75°	551.4	480.4	452.9	434.5	419.6	410.6	401.9
90°	558.5	480.7	451.5	431.5	411.3	393.6	371.4
110°	594.6	488.8	448.0	421.7	398.7	384.3	358.2
120°	611.8	499.0	453.2	425.4	396.7	370.6	339.2
135°	679.7	546.6	475.7	444.1	417.6	389.3	333.1
150°	806.8	638.9	538.2	478.0	447.0	422.7	371.4
Run VMG	931.7	737.8	621.5	546.6	498.7	461.8	414.1
Selected Courses							
Windward / Leeward	931.1	751.3	648.4	594.1	562.9	540.9	512.7
Circular Random	781.5	630.5	549.6	502.6	473.1	452.9	425.3
Coastal / Long Distance	931.2	706.6	586.4	520.1	483.8	453.7	406.6
Non Spinnaker	831.1	665.9	576.3	523.3	490.0	467.4	436.9

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	42.8°	41.3°	39.8°	37.9°	37.1°	36.8°	36.8°
Beat VMG	3.87	4.71	5.33	5.61	5.74	5.81	5.89
52°	5.90	7.03	7.63	7.87	7.97	8.03	8.09
60°	6.24	7.30	7.81	8.07	8.20	8.28	8.35
75°	6.53	7.49	7.95	8.28	8.58	8.77	8.96
90°	6.45	7.49	7.97	8.34	8.75	9.15	9.69
110°	6.05	7.36	8.04	8.54	9.03	9.37	10.05
120°	5.88	7.21	7.94	8.46	9.08	9.71	10.61
135°	5.30	6.59	7.57	8.11	8.62	9.25	10.81
150°	4.46	5.63	6.69	7.53	8.05	8.52	9.69
Run VMG	3.86	4.88	5.79	6.59	7.22	7.80	8.69
Gybe Angles	142.5°	147.0°	149.0°	154.5°	166.0°	180.0°	180.0°