



BOAT			GPH			HULL		
Name MIRA Sail Nr EST 313			742.7			Data File Est0313 LOA 8.580m Offset File E186.OFF MB 2.920m Displacement 2,730kg Draft 1.527m		
CLASS						IMS Division Cruiser/Racer Dynamic All. 0.380%		
Class OMEGA 28						Plan Review Construction Solid		
Designer Stahle						Fiber Rigging No Aramid Core No		
Builder Aronsson						Crew Arm Ex Carbon Rudder No		
Series 01/1976						Light Stanchions No		
Age Date 01/1978						IMSL 6.813m VCGD -0.018m Sink 9.73kg/mm		
Age Allowance 0.487%						RL 5.952m VCGM -0.028m WS 13.93m		
COMMENTS						LSM0 6.855m Displacement/Length ratio		
						Water Ballast Trim Tab No		
						BLR Index 0.0000		
PROPELLER						CENTERBOARD		
Installation Shaft exposed PRD 0.380						N/A		
Type Folding 2 blades PBW 0.096								
PIPA 0.0033								
SCORING OPTIONS								
	COASTAL / LONG DISTANCE				WINDWARD / LEEWARD			
Time on Distance	722.3				801.6			
Time on Time	0.8307				0.8421			
Triple Number	Low	Medium	High		Low	Medium	High	
Time on Distance	843.3	659.5	595.8		1083.3	804.6	708.4	
Time on Time	0.8004	1.0235	1.1330		0.6231	0.8389	0.9529	

BOAT										INCLINING TEST AND FREEBOARDS										
Name MIRA					Sail Nr EST 313					Inclining Test Club Estimated VCG										
File Est0313					Data in meters/kilograms					Flotation date 02/04/2020 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 1.096 SFFP 0.623 FAM FA 0.725 SAFF 8.230					LCF from stem on CL / on sheer 4.880 / 5.059 Maximum beam station from stem 5.265 RM Measured 33.8kg·m RM Default 32.8kg·m Limit of positive stability / Stab.Index 116.2° / 112.7 Freeboard at mast at 3.470 0.891										
P 10.500 E 3.300 MDT1 0.100 MW IG 9.400 J 2.900 MDL1 0.160 GO ISP 9.450 SFJ 0.570 MDT2 BD BAS 1.200 SPL 3.000 MDL2 MWT FSD -2.000 TPS TL -2.000 MCG																				
MIZZEN RIG AND SAILS N/A										PROPELLER Installation Shaft exposed PRD 0.380 Type Folding 2 blades PBW 0.096 Twin Screw No PIPA 0.0033 PSA 13.700 PHL 0.121 ST3 0.082 ESL 0.471 PSD 0.025 ST1 0.021 ST4 0.047 PHD 0.066 ST2 0.082 ST5 0.233										
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	0.11	0.62	1.16	2.06	2.73	20.08	EST7	04/04/2020		Dacron										
HEADSAILS (3)																				
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment				
3	0.05	0.38	0.95	1.98	3.18	4.44	9.12	153%	19.05	No	EST7	04/04/2020			Unknow	Genoa				
1	0.06	0.49	0.92	1.70	2.39	3.09	9.10	107%	14.89	Y	No	EST7	04/04/2020		Unknow	Jib				
2	0.05	0.30	0.57	1.13	1.37	2.37	6.00	82%	6.49		No	EST7	04/04/2020	WB	Unknow	Heavy Jib				
SYMMETRIC SPINNAKERS (1)																				
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment									
1	9.31	9.31	9.31	5.35	5.31	41.45	EST7	04/04/2020			Nylon									
ASYMMETRIC SPINNAKERS (0)																				
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment								



2020 Measurements Datasheet

Certificate

Number **Est313**
 ORC Ref **03580000H9K**
 Issued On **4/15/2020**
 VPP Ver. **2020 1.01**
 Valid until **31/12/2020**

2020

ORC Club Certificate Appendix

BOAT

Name	MIRA	Certificate Number	Est313
Sail Nr	EST 313	Issued On	4/15/2020

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1231.6	1037.9	923.5	865.6	846.2	838.4	846.7
52°	811.6	688.1	631.2	607.6	596.0	590.3	588.7
60°	770.5	656.3	613.5	593.2	580.6	572.5	568.1
75°	742.8	637.3	600.0	579.9	564.1	551.2	535.6
90°	747.3	628.7	587.0	563.8	549.0	540.3	515.1
110°	745.2	625.3	582.4	555.3	530.6	510.1	488.6
120°	771.2	640.3	589.7	561.6	535.9	511.8	477.3
135°	852.4	701.5	615.6	580.3	554.3	529.0	484.4
150°	993.6	795.8	677.1	609.3	578.3	553.8	507.5
Run VMG	1147.3	916.5	776.6	677.3	615.2	582.8	535.7
Selected Courses							
Windward / Leeward	1189.4	977.2	850.1	771.4	730.7	710.6	691.2
Circular Random	1014.4	822.7	720.9	662.7	628.0	606.2	580.6
Coastal / Long Distance	1185.2	917.8	768.8	682.3	639.2	606.9	553.3
Non Spinnaker	1062.1	856.4	746.0	682.1	643.5	619.2	591.9

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°	42.0°	41.3°	39.8°	39.6°	39.4°	40.5°
Beat VMG	2.92	3.47	3.90	4.16	4.25	4.29	4.25
52°	4.44	5.23	5.70	5.92	6.04	6.10	6.12
60°	4.67	5.49	5.87	6.07	6.20	6.29	6.34
75°	4.85	5.65	6.00	6.21	6.38	6.53	6.72
90°	4.82	5.73	6.13	6.38	6.56	6.66	6.99
110°	4.83	5.76	6.18	6.48	6.79	7.06	7.37
120°	4.67	5.62	6.11	6.41	6.72	7.03	7.54
135°	4.22	5.13	5.85	6.20	6.49	6.81	7.43
150°	3.62	4.52	5.32	5.91	6.23	6.50	7.09
Run VMG	3.14	3.93	4.64	5.32	5.85	6.18	6.72
Gybe Angles	148.5°	154.0°	154.0°	172.0°	180.0°	180.0°	180.0°