



ORC

Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **C07/20**
Issued On **19/06/2020**
ORC Ref **03090000L1U**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 684kg
Maximum **684kg**
Minimum* **513kg**
**when applied by the NoR and SI*
Non Manual Pwr

Special Scoring

	ToD	ToT
Non Spin GPH	648.6	0.9251
Non Spin OSN	628.5	0.9546

Sails Limitations

Headsails **5** Spinnakers **4**
Woven Polyester
Asymmetric on centerline
Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 108.59**
Flying H/S: **No**
Spin. Pole: **No**

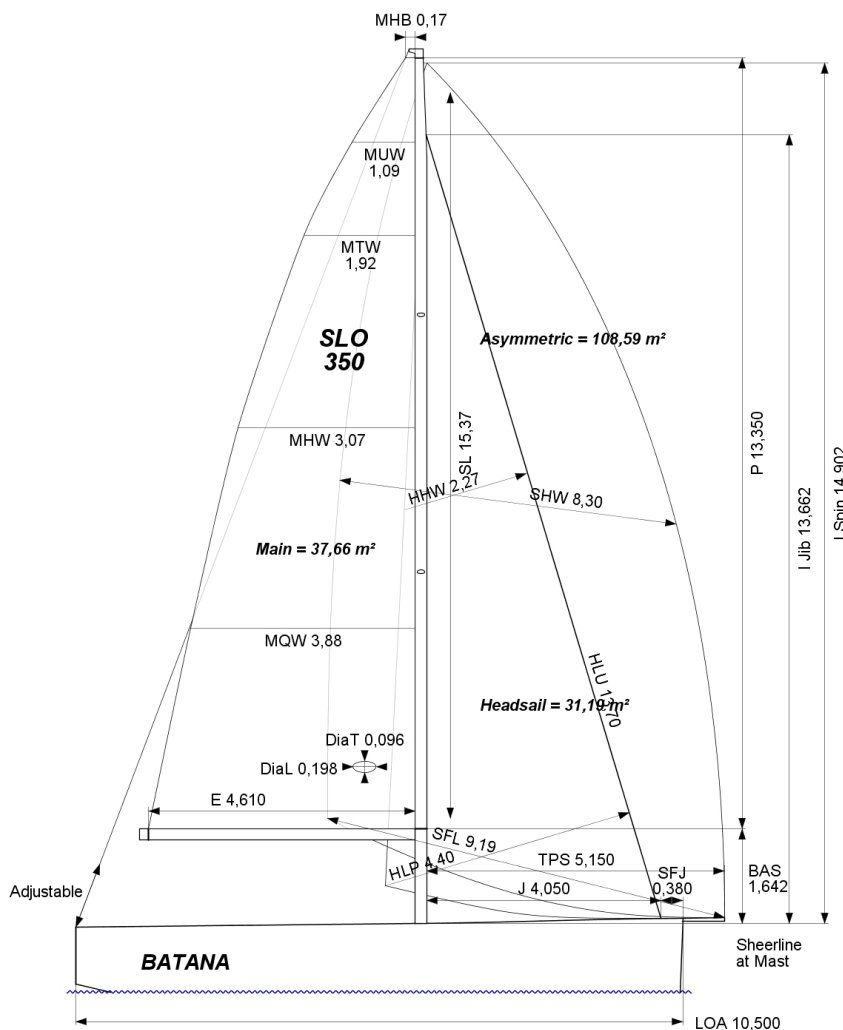
Class Division Length

CDL = 9.555

Stability (Estimated)

Limit Positive Stab.: **120.7°**
Stability Index: **121.0**

Owner



BOAT		GPH		HULL		
Name	Batana			Data File	SLO350	
Sail Nr	SLO 350			Offset File	E350IK.OFF	
				Displacement	5,350kg	
				LOA	10.500m	
				MB	3.540m	
				Draft	2.144m	
CLASS				IMS Division	Cruiser/Racer	
Class	Elan 350			Dynamic All.	0.203%	
Designer	Rob Humphreys			Plan Review	Construction	
Builder	Elan Yachting			Fiber Rigging	No	
Series	09/2010			Crew Arm Ex	Carbon Rudder No	
Age Date	04/2011				Light Stanchions No	
Age Allowance	0.325%			IMSL	10.128m	
COMMENTS				VCGD	-0.082m	
				Sink	19.22kg/mm	
				RL	8.981m	
				VCGM	0.019m	
				WS	25.23m²	
				LSM0	9.956m	
				Displacement/Length ratio	5.4212	
				Water Ballast	0	
				Trim Tab	No	
				BLR Index	0.0000	
PROPELLER				CENTERBOARD		
Installation	Strut	PRD	0.400			
Type	Folding 2 blades	PIPA	0.0006	N/A		
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	592.1			665.4		
Time on Time	1.0133			1.0145		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	695.8	539.7	483.9	901.3	667.9	587.6
Time on Time	0.9701	1.2506	1.3950	0.7489	1.0106	1.1488

2020

ORC Club Certificate Appendix

BOAT	
Name Batana	Certificate Number C07/20
Sail Nr SLO 350	Issued On 19/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1049.8	865.3	759.4	704.6	685.7	678.6	669.7
52°	681.4	573.8	517.0	493.3	483.9	480.1	476.9
60°	641.0	545.6	501.6	481.4	470.6	466.2	463.7
75°	611.7	525.6	490.4	471.0	456.2	444.8	435.8
90°	611.5	514.2	479.3	467.4	453.0	436.1	409.3
110°	600.5	505.3	469.8	445.0	426.2	413.2	390.4
120°	616.6	513.6	474.7	447.8	420.6	396.2	368.2
135°	688.1	557.1	494.8	465.8	439.9	413.2	358.8
150°	813.6	650.1	551.5	500.3	478.4	457.9	412.9
Run VMG	939.5	750.7	636.8	577.2	548.0	504.3	458.6
Selected Courses							
Windward / Leeward	994.7	808.0	698.1	640.9	616.9	591.4	564.2
Circular Random	836.2	676.0	590.8	542.0	512.3	492.5	466.0
Coastal / Long Distance	989.1	757.6	629.7	559.1	524.3	492.7	444.0
Non Spinnaker	911.0	727.9	628.1	569.3	532.9	509.2	479.7

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°	41.6°	40.9°	39.4°	38.6°	39.0°	38.6°
Beat VMG	3.43	4.16	4.74	5.11	5.25	5.31	5.38
52°	5.28	6.27	6.96	7.30	7.44	7.50	7.55
60°	5.62	6.60	7.18	7.48	7.65	7.72	7.76
75°	5.88	6.85	7.34	7.64	7.89	8.09	8.26
90°	5.89	7.00	7.51	7.70	7.95	8.25	8.80
110°	6.00	7.12	7.66	8.09	8.45	8.71	9.22
120°	5.84	7.01	7.58	8.04	8.56	9.09	9.78
135°	5.23	6.46	7.28	7.73	8.18	8.71	10.03
150°	4.42	5.54	6.53	7.20	7.53	7.86	8.72
Run VMG	3.83	4.80	5.65	6.24	6.57	7.14	7.85
Gybe Angles	144.0°	148.0°	148.5°	150.5°	153.0°	176.5°	178.0°