



2020 ORC Club Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **109/20**
 Issued On **02/11/2020**
 ORC Ref **03620000SKB**
 VPP Ver. **2020 1.02**
 Valid until **31/12/2020**

Crew Weight

Default 686kg
 Maximum **686kg**
 Minimum* **515kg**
*when applied by the NoR and SI
 Non Manual Pwr

Special Scoring

	ToD	ToT
Non Spin GPH	652.2	0.9200
Non Spin OSN	631.7	0.9498

Sails Limitations

Headsails **1** Spinnakers **4**

Asymmetric on centerline

Spinnaker configuration
 Symmetric: **No**
 Asymmetric: **Yes 106.34**
 Flying H/S: **No**
 Spin. Pole: **No**

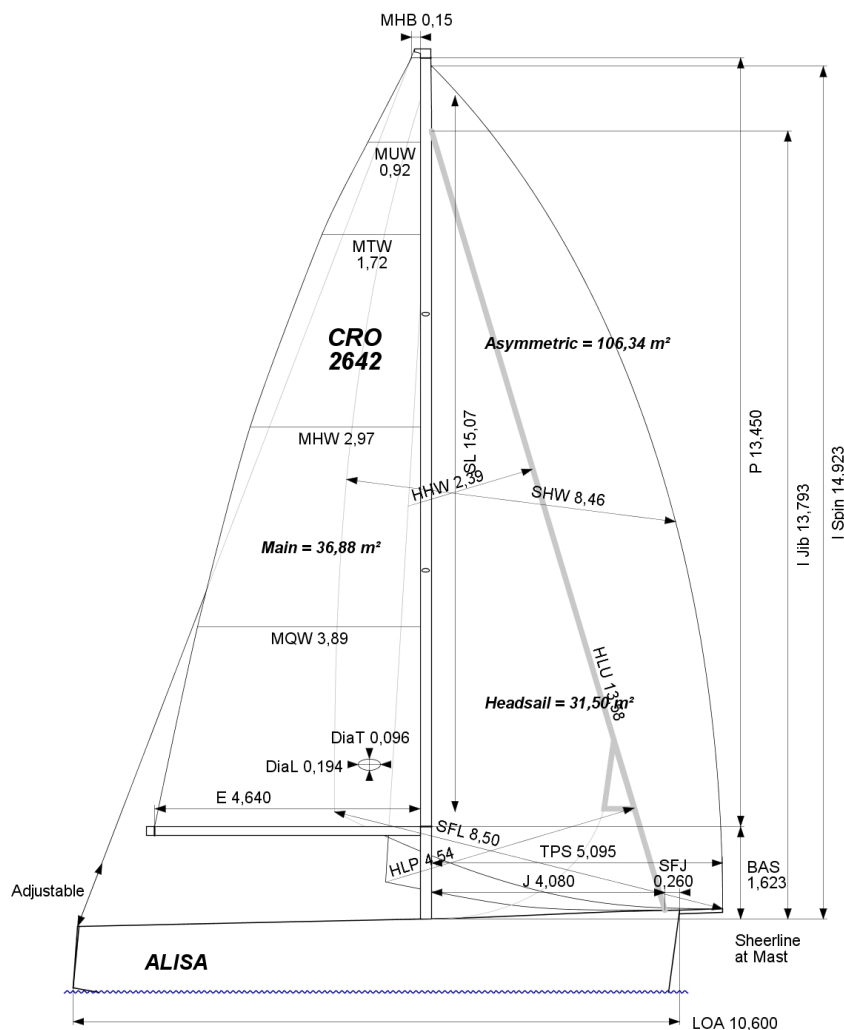
Class Division Length

CDL = 9.519

Stability (Estimated)

Limit Positive Stab.: **120.5°**
 Stability Index: **120.1**

Owner



BOAT Name Alisa Sail Nr CRO 2642		GPH 612.3	HULL Data File CRO2642 LOA 10.600m Offset File ELANE4.off MB 3.540m Displacement 5,135kg Draft 2.120m			
CLASS Class Elan E4 Designer Humphreys Builder Elan Series 10/2001 Age Date 04/2019 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.198% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		IMSL 10.169m VCGD -0.072m Sink 19.54kg/mm RL 8.869m VCGM 0.047m WS 25.21m² LSM0 9.978m Displacement/Length ratio 5.1690		
COMMENTS		Water Ballast 0 Trim Tab No BLR Index 0.0000				
PROPELLER Installation Strut PRD 0.417 Type Folding 2 blades PIPA 0.0007		CENTERBOARD N/A				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	595.1			669.4		
Time on Time	1.0083			1.0084		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	700.4	542.4	485.6	908.0	672.0	591.4
Time on Time	0.9638	1.2444	1.3901	0.7434	1.0044	1.1413

2020

ORC Club Certificate Appendix

BOAT	
Name Alisa	Certificate Number 109/20
Sail Nr CRO 2642	Issued On 02/11/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1061.1	874.1	766.6	709.1	689.9	683.3	678.2
52°	686.8	578.6	521.0	496.7	487.2	483.5	481.2
60°	645.2	549.7	505.3	484.6	473.7	469.2	467.2
75°	615.4	529.2	493.9	474.1	458.6	446.7	438.0
90°	612.8	515.7	480.0	467.1	453.6	435.8	408.4
110°	602.9	507.2	471.1	445.0	424.2	410.8	387.4
120°	619.5	516.0	476.3	448.5	420.1	394.3	364.5
135°	691.0	560.2	496.9	467.2	440.3	412.6	356.1
150°	817.4	652.1	554.0	502.4	480.0	458.9	411.8
Run VMG	943.9	753.0	639.7	579.9	550.2	506.4	459.7
Selected Courses							
Windward / Leeward	1002.5	813.6	703.1	644.5	620.0	594.9	568.9
Circular Random	841.5	680.0	594.0	544.5	514.4	494.4	467.8
Coastal / Long Distance	996.6	762.5	633.8	561.7	526.4	494.2	444.6
Non Spinnaker	917.0	732.3	631.5	572.1	535.3	511.5	482.0

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°	41.1°	39.4°	38.6°	38.6°	38.6°
Beat VMG	3.39	4.12	4.70	5.08	5.22	5.27	5.31
52°	5.24	6.22	6.91	7.25	7.39	7.45	7.48
60°	5.58	6.55	7.12	7.43	7.60	7.67	7.71
75°	5.85	6.80	7.29	7.59	7.85	8.06	8.22
90°	5.87	6.98	7.50	7.71	7.94	8.26	8.82
110°	5.97	7.10	7.64	8.09	8.49	8.76	9.29
120°	5.81	6.98	7.56	8.03	8.57	9.13	9.88
135°	5.21	6.43	7.24	7.71	8.18	8.72	10.11
150°	4.40	5.52	6.50	7.17	7.50	7.84	8.74
Run VMG	3.81	4.78	5.63	6.21	6.54	7.11	7.83
Gybe Angles	144.0°	148.0°	148.5°	150.3°	153.0°	176.0°	178.0°