



ORC
Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **C02/20**
Issued On **27/05/2020**
ORC Ref **03090000J1M**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 712kg
Maximum **712kg**
Minimum* **534kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	639.4	0.9384
Non Spin OSN	622.1	0.9645

Sails Limitations

Headsails **5** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes** 103.22
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

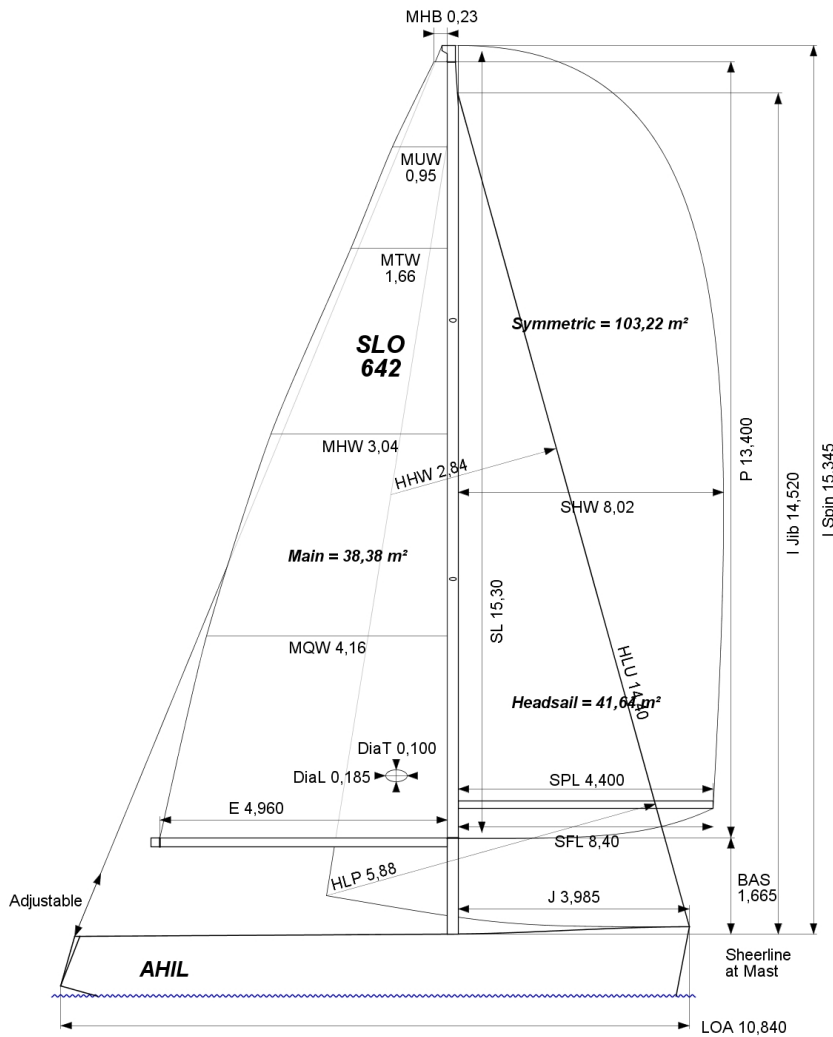
Class Division Length

CDL = 9.582

Stability (Estimated)

Limit Positive Stab.: **123.5°**
Stability Index: **128.4**

Owner



BOAT		GPH		HULL		
Name Ahil			609.2	Data File SLO642	LOA 10.840m	
Sail Nr SLO 642				Offset File BA35MMK.OFF	MB 3.276m	
				Displacement 5,992kg	Draft 2.014m	
CLASS		IMS Division Cruiser/Racer Dynamic All. 0.038%				
Class Bavaria 35 match	Plan Review Construction Cored					
Designer Jakopin	Fiber Rigging No Aramid Core No					
Builder Bavaria	Crew Arm Ex Carbon Rudder No					
Series 06/2004, CIN DEBAVB35J4G405	Light Stanchions No					
Age Date 02/2005	IMSL 10.125m	VCGD -0.298m	Sink 19.21kg/mm			
Age Allowance 0.487%	RL 9.037m	VCGM -0.094m	WS 25.42m²			
COMMENTS		LSM0 10.240m Displacement/Length ratio 5.5805				
		Water Ballast 0 Trim Tab No				
		BLR Index 0.0000				
PROPELLER		CENTERBOARD				
Installation Strut	PRD 0.420	N/A				
Type Folding 3 blades	PIPA 0.0032					
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	592.7			658.9		
Time on Time	1.0123			1.0244		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	691.0	541.5	487.5	889.3	661.5	579.4
Time on Time	0.9768	1.2465	1.3847	0.7590	1.0204	1.1650

2020

ORC Club Certificate Appendix

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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1004.8	837.0	742.5	702.4	685.1	677.1	674.1
52°	660.6	559.1	512.9	495.3	488.5	485.0	483.4
60°	625.2	536.2	500.5	484.4	476.5	472.4	469.5
75°	597.7	521.1	491.5	474.6	462.1	453.3	445.3
90°	604.5	521.8	490.3	472.3	456.8	442.3	420.7
110°	621.0	518.5	480.9	458.5	440.9	429.3	409.3
120°	636.7	527.2	485.0	460.5	437.0	415.5	391.3
135°	700.0	570.4	504.4	475.5	452.5	428.5	382.9
150°	825.2	660.5	560.0	503.8	476.9	455.5	411.4
Run VMG	952.9	762.6	646.3	572.5	522.1	488.3	445.7
Selected Courses							
Windward / Leeward	978.8	799.8	694.4	637.5	603.6	582.7	559.9
Circular Random	831.7	674.6	591.4	543.8	514.9	496.1	472.3
Coastal / Long Distance	976.2	752.1	628.9	561.1	525.0	496.5	452.5
Non Spinnaker	886.3	713.2	619.9	565.7	532.4	510.8	483.7

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	42.8°	41.3°	40.5°	39.0°	38.3°	37.9°	37.5°
Beat VMG	3.58	4.30	4.85	5.13	5.25	5.32	5.34
52°	5.45	6.44	7.02	7.27	7.37	7.42	7.45
60°	5.76	6.71	7.19	7.43	7.55	7.62	7.67
75°	6.02	6.91	7.33	7.59	7.79	7.94	8.08
90°	5.96	6.90	7.34	7.62	7.88	8.14	8.56
110°	5.80	6.94	7.49	7.85	8.17	8.39	8.79
120°	5.65	6.83	7.42	7.82	8.24	8.66	9.20
135°	5.14	6.31	7.14	7.57	7.96	8.40	9.40
150°	4.36	5.45	6.43	7.14	7.55	7.90	8.75
Run VMG	3.78	4.72	5.57	6.29	6.89	7.37	8.08
Gybe Angles	145.0°	149.0°	150.5°	157.0°	174.0°	180.0°	180.0°