



ORC

Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **001/19**
Issued On **20/05/2020**
ORC Ref **03850000IKQ**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 637kg
Maximum **637kg**
Minimum* **478kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	754.5	0.7952
Non Spin OSN	724.5	0.8282

Sails Limitations

Headsails **1** Spinnakers **4**
Woven Polyester
Asymmetric on centerline
Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 66.38**
Flying H/S: **No**
Spin. Pole: **No**

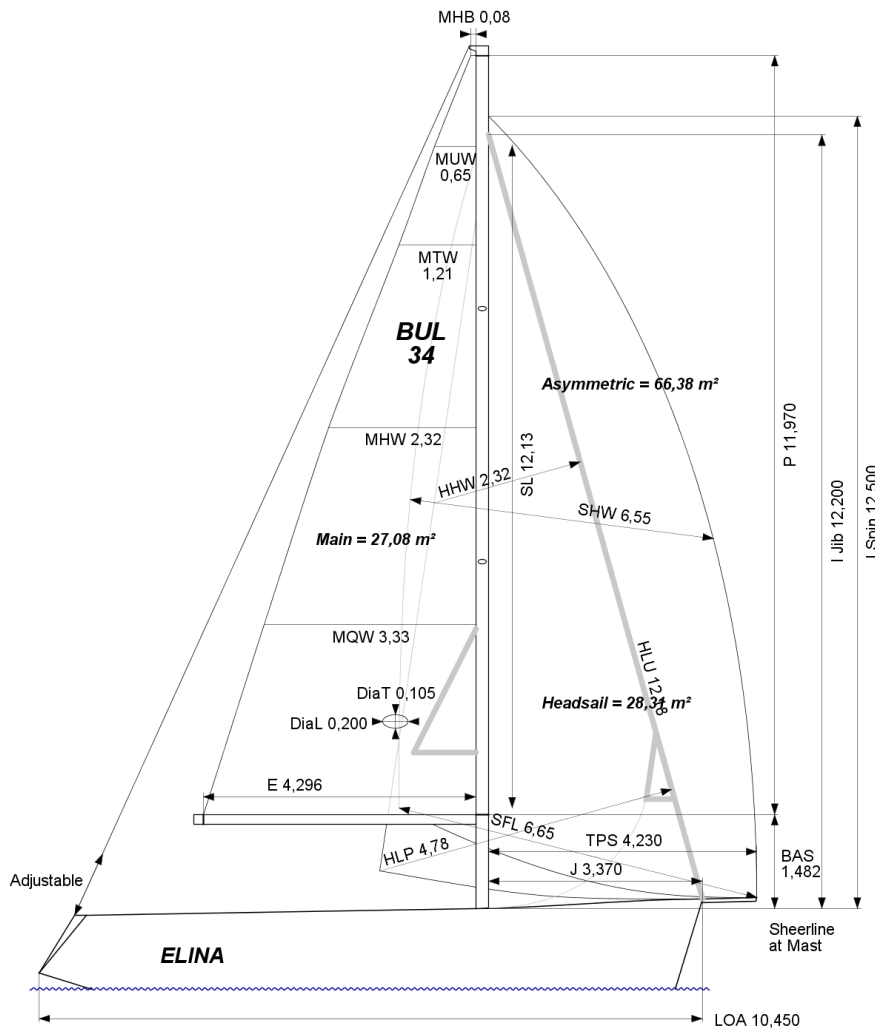
Class Division Length

CDL = 7.813

Stability (Estimated)

Limit Positive Stab.: **114.3°**
Stability Index: **115.7**

Owner



BOAT	GPH	HULL
Name Elina Sail Nr BUL-34	716.0	Data File BUL34 LOA 10.450m Offset File CLBAV34C.OFF MB 3.600m Displacement 6,010kg Draft 1.913m
CLASS Class Bavaria 34 Cruiser Designer Jakopin Builder Bavaria Series 01/2007 Age Date 01/2007 Age Allowance 0.422%		IMS Division Cruiser/Racer Dynamic All. 0.416% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS		IMSL 9.462m VCGD 0.164m Sink 19.38kg/mm RL 6.163m VCGM 0.153m WS 26.03m² LSM0 9.475m Displacement/Length ratio 7.0654
PROPELLER Installation Strut PRD 0.380 Type Solid 2 blades PIPA 0.0146		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD NA
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	692.5	783.6
Time on Time	0.8664	0.8614
Triple Number	Low Medium High	Low Medium High
Time on Distance	853.1 627.1 538.4	1113.9 797.4 658.5
Time on Time	0.7912 1.0764 1.2536	0.6060 0.8465 1.0251

2020

ORC Club Certificate Appendix

BOAT	
Name Elina	Certificate Number 001/19
Sail Nr BUL-34	Issued On 20/05/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1326.8	1073.0	940.7	850.6	784.0	750.4	745.9
52°	846.6	696.6	616.2	561.5	531.1	516.3	510.0
60°	789.9	656.0	581.0	537.6	514.8	501.9	493.0
75°	752.1	628.6	555.6	520.7	501.9	488.3	469.8
90°	736.7	603.1	530.1	498.6	480.6	469.0	457.7
110°	730.3	597.1	525.5	495.0	473.9	453.9	420.3
120°	759.3	618.8	537.1	501.0	478.9	458.3	419.8
135°	848.3	679.1	579.8	522.8	495.0	474.7	435.8
150°	998.2	781.9	664.2	585.7	540.6	511.9	477.4
Run VMG	1152.6	902.8	766.9	676.4	624.2	571.2	505.4
Selected Courses							
Windward / Leeward	1239.7	987.9	853.8	763.5	704.1	660.8	625.7
Circular Random	1015.8	808.0	693.1	624.0	580.3	552.0	520.0
Coastal / Long Distance	1231.0	923.3	758.1	650.2	589.1	546.4	492.6
Non Spinnaker	1089.2	858.8	729.4	650.2	599.4	566.5	530.3

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	45.8°	44.3°	42.8°	42.8°	41.6°	40.9°	40.9°
Beat VMG	2.71	3.36	3.83	4.23	4.59	4.80	4.83
52°	4.25	5.17	5.84	6.41	6.78	6.97	7.06
60°	4.56	5.49	6.20	6.70	6.99	7.17	7.30
75°	4.79	5.73	6.48	6.91	7.17	7.37	7.66
90°	4.89	5.97	6.79	7.22	7.49	7.68	7.87
110°	4.93	6.03	6.85	7.27	7.60	7.93	8.57
120°	4.74	5.82	6.70	7.19	7.52	7.86	8.58
135°	4.24	5.30	6.21	6.89	7.27	7.58	8.26
150°	3.61	4.60	5.42	6.15	6.66	7.03	7.54
Run VMG	3.12	3.99	4.69	5.32	5.77	6.30	7.12
Gybe Angles	145.5°	146.5°	146.0°	146.0°	148.5°	174.0°	178.0°