



ORC

Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **001/19**
Issued On **24/06/2020**
ORC Ref **0385000LBA**
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	738.3	0.8127
Non Spin OSN	710.4	0.8445

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**

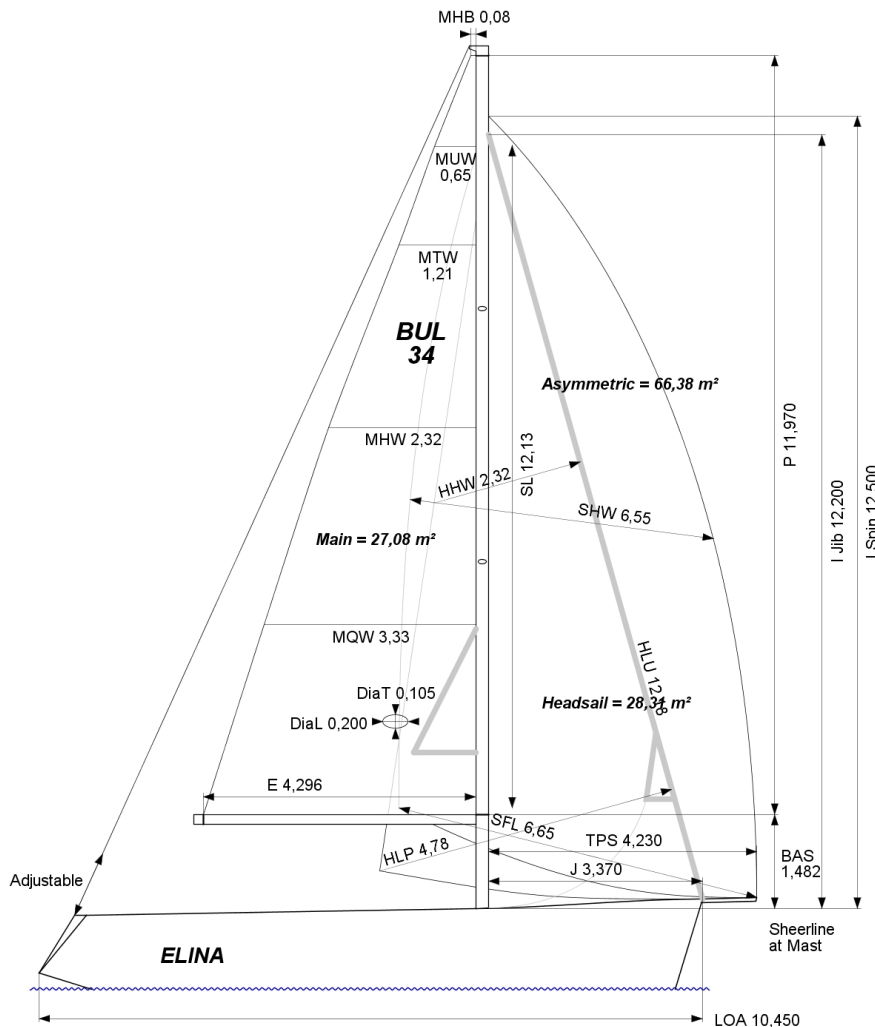
Class Division Length

CDL = 7.965

Stability (Estimated)

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

Owner



BOAT	GPH	HULL
Name Elina Sail Nr BUL-34	701.9	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. 0.414% 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 6.466m VCGM 0.153m WS 26.03m² LSM0 9.475m Displacement/Length ratio 7.0654
PROPELLER Installation Strut PRD 0.380 Type Folding 2 blades PBW 0.290 PIPA 0.0035		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	679.9	767.4
Time on Time	0.8825	0.8796
Triple Number	Low Medium High	Low Medium High
Time on Distance	828.2 616.8 533.5	1078.4 780.8 649.5
Time on Time	0.8150 1.0944 1.2653	0.6259 0.8645 1.0393

2020

ORC Club Certificate Appendix

BOAT	
Name Elina	Certificate Number 001/19
Sail Nr BUL-34	Issued On 24/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1273.0	1039.9	916.4	830.4	768.1	738.2	735.1
52°	815.7	678.6	602.3	552.5	525.9	512.7	507.0
60°	763.8	640.2	569.5	531.5	511.2	499.3	490.8
75°	728.5	613.3	547.0	516.5	499.1	486.1	467.7
90°	718.5	591.8	524.9	496.1	478.6	467.1	455.6
110°	712.9	585.7	520.8	492.5	471.8	451.9	418.7
120°	739.7	606.6	531.1	498.3	476.8	456.3	418.2
135°	823.8	665.1	570.0	518.6	492.7	472.6	434.1
150°	968.9	763.7	651.4	576.7	534.8	508.5	475.3
Run VMG	1118.8	881.9	752.1	665.9	617.5	564.0	502.8
Selected Courses							
Windward / Leeward	1195.9	960.9	834.3	748.2	692.8	651.1	618.9
Circular Random	988.0	789.3	680.0	614.4	573.1	546.3	515.9
Coastal / Long Distance	1188.2	898.8	742.1	639.6	582.2	541.5	489.7
Non Spinnaker	1057.6	837.4	714.3	639.1	591.2	560.2	525.9

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	45.0°	43.5°	42.8°	42.2°	41.3°	40.1°	40.1°
Beat VMG	2.83	3.46	3.93	4.34	4.69	4.88	4.90
52°	4.41	5.31	5.98	6.52	6.85	7.02	7.10
60°	4.71	5.62	6.32	6.77	7.04	7.21	7.34
75°	4.94	5.87	6.58	6.97	7.21	7.41	7.70
90°	5.01	6.08	6.86	7.26	7.52	7.71	7.90
110°	5.05	6.15	6.91	7.31	7.63	7.97	8.60
120°	4.87	5.93	6.78	7.22	7.55	7.89	8.61
135°	4.37	5.41	6.32	6.94	7.31	7.62	8.29
150°	3.72	4.71	5.53	6.24	6.73	7.08	7.57
Run VMG	3.22	4.08	4.79	5.41	5.83	6.38	7.16
Gybe Angles	146.0°	147.0°	146.5°	146.8°	149.5°	175.0°	178.0°