



ORC

Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **010/20**
Issued On **09/06/2020**
ORC Ref **03880000KBO**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 690kg
Maximum **690kg**
Minimum* **518kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	658.0	0.9119
Non Spin OSN	639.2	0.9386

Sails Limitations

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

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 108.60**
Flying H/S: **No**
Spin. Pole: **No**

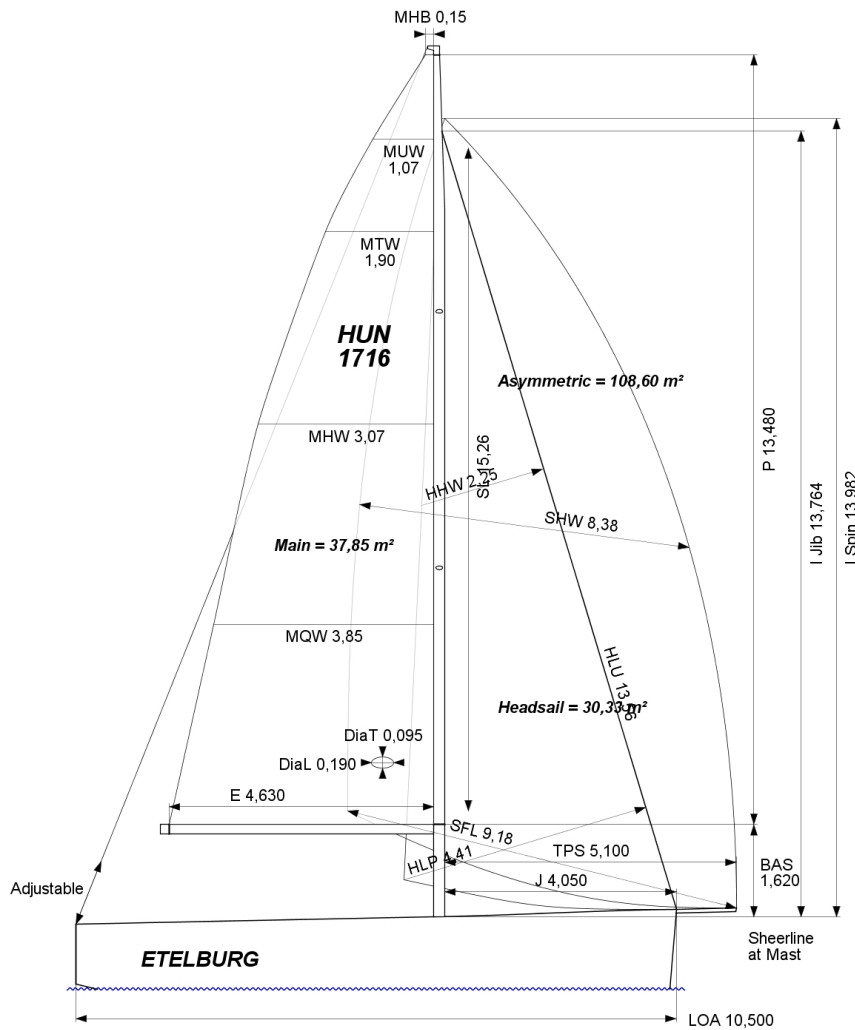
Class Division Length

CDL = 9.196

Stability (Estimated)

Limit Positive Stab.: **119.2°**
Stability Index: **119.4**

Owner



BOAT	GPH	HULL
Name ETELBURG Sail Nr HUN-1716	619.7	Data File HUN1716 LOA 10.500m Offset File ElanE4SD.off MB 3.540m Displacement 5,349kg Draft 1.686m
CLASS Class ELAN E4 Designer HUMPHREYS Builder ELAN Series 07/2014 Age Date 01/2018 Age Allowance 0.195%		IMS Division Cruiser/Racer Dynamic All. 0.210% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS		IMSL 10.200m VCGD -0.031m Sink 19.69kg/mm RL 8.191m VCGM 0.074m WS 24.90m² LSM0 10.015m Displacement/Length ratio 5.3250
PROPELLER Installation Strut PRD 0.420 Type Folding 2 blades PIPA 0.0007		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	604.0	683.2
Time on Time	0.9934	0.9880
Triple Number	Low Medium High	Low Medium High
Time on Distance	708.3 549.0 493.3	923.6 685.2 605.8
Time on Time	0.9530 1.2296 1.3683	0.7308 0.9851 1.1143

2020

ORC Club Certificate Appendix

BOAT	
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Sail Nr	HUN-1716
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1096.0	905.4	793.7	737.8	719.2	713.4	710.4
52°	699.8	587.6	527.2	501.8	492.8	489.1	487.2
60°	649.8	553.5	507.9	487.3	477.2	473.2	471.9
75°	615.0	529.4	494.1	475.0	460.8	450.2	442.4
90°	615.8	517.5	481.0	467.1	454.2	437.6	411.4
110°	601.7	506.4	470.7	445.6	423.9	410.5	387.5
120°	617.2	514.2	475.2	448.5	421.0	395.5	364.2
135°	689.4	557.8	494.8	466.0	440.1	413.4	358.7
150°	815.0	651.5	552.5	500.2	478.2	457.9	413.1
Run VMG	941.0	752.3	637.9	577.1	547.8	503.8	458.2
Selected Courses							
Windward / Leeward	1018.5	828.9	715.8	657.4	633.5	608.6	584.3
Circular Random	850.8	687.8	601.1	551.6	521.6	502.0	476.5
Coastal / Long Distance	1010.8	774.9	642.8	570.0	534.0	501.1	449.5
Non Spinnaker	922.6	737.8	637.2	578.1	541.8	518.3	489.1

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	44.6°	44.3°	42.8°	41.6°	41.3°	41.1°	41.3°
Beat VMG	3.28	3.98	4.54	4.88	5.01	5.05	5.07
52°	5.14	6.13	6.83	7.17	7.31	7.36	7.39
60°	5.54	6.50	7.09	7.39	7.54	7.61	7.63
75°	5.85	6.80	7.29	7.58	7.81	8.00	8.14
90°	5.85	6.96	7.48	7.71	7.93	8.23	8.75
110°	5.98	7.11	7.65	8.08	8.49	8.77	9.29
120°	5.83	7.00	7.58	8.03	8.55	9.10	9.89
135°	5.22	6.45	7.28	7.73	8.18	8.71	10.04
150°	4.42	5.53	6.52	7.20	7.53	7.86	8.72
Run VMG	3.83	4.79	5.64	6.24	6.57	7.15	7.86
Gybe Angles	144.0°	148.0°	148.0°	150.5°	153.0°	176.5°	178.0°