



World Leader in Rating Technology

2019 (Test) ORC Club One Design Certificate

Rating Office

Certificate

Number
Issued On **15/01/2019**
ORC Ref **N/A**
VPP Ver. **2019 1.01**

Invalid for Racing

Crew Weight

Default 456kg
Maximum **280kg**
Minimum* **195kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	649.0	0.9245
Non Spin OSN	636.7	0.9423

Sails Limitations

Headsails **5** Spinnakers **3**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 72.28**
Flying H/S: **No**
Spin. Pole: **No**

Class Division Length

CDL = **7.670**

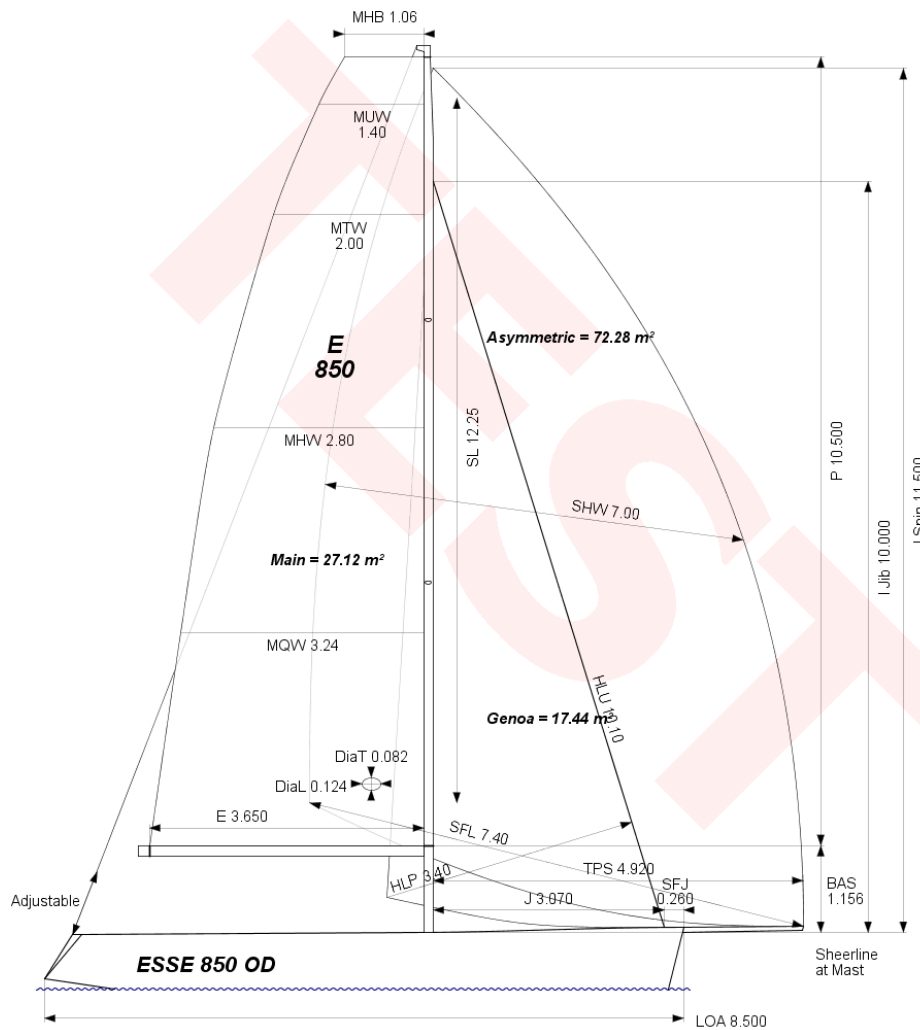
Stability (Measured)

Limit Positive Stab.: **123.1°**
Stability Index: **119.1**

Owner

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



BOAT	GPH	HULL
Name ESSE 850 OD Sail Nr E850-	608.1	Data File S850 LOA 8.500m Offset File s850.od MB 2.198m Displacement 1,222kg Draft 1.999m
CLASS Class ESSE 850 Designer FELCI Builder PROTEUS YACHTS Series 01/2004 Age Date Age Allowance 0.487%		IMS Division Sportboat Dynamic All. 0.001% Fwd Accom. No Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex 0.50 Carbon Rudder No Light Stanchions
COMMENTS		IMSL 7.969m VCGD -0.314m Sink 9.83kg/mm RL 7.370m VCGM -0.308m WS 12.99m² LSMO 7.487m Displacement/Length ratio 2.9117
PROPELLER Type No Propeller		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	597.8	673.8
Time on Time	1.0036	1.0018
Triple Number	Low Medium High	Low Medium High
Time on Distance	666.0 550.6 490.5	851.8 683.3 597.3
Time on Time	1.0135 1.2260 1.3762	0.7924 0.9879 1.1300



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ORC Club Certificate Appendix

BOAT		Certificate Number	
Name	ESSE 850 OD	Issued On	15/01/2019
Sail Nr	E850-		

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	960.6	819.3	786.8	777.8	766.3	762.6	774.5
52°	630.7	561.5	547.7	542.2	536.3	531.1	530.9
60°	598.5	542.9	529.5	522.9	517.6	508.0	505.3
75°	578.8	525.2	501.2	488.8	481.5	473.8	459.6
90°	583.6	525.0	482.5	458.2	445.1	437.6	421.4
110°	578.6	514.4	482.2	457.0	429.2	397.7	374.9
120°	592.3	513.9	466.8	438.9	413.3	387.7	351.4
135°	662.0	545.1	487.7	431.2	381.9	353.8	309.2
150°	787.1	622.2	539.7	492.4	441.7	390.0	301.1
Run VMG	908.9	718.5	624.9	568.6	510.0	450.4	347.6

Selected Courses							
Windward / Leeward	934.7	768.9	705.8	673.2	638.1	606.5	561.1
Circular Random	810.1	666.8	592.5	549.4	520.9	499.7	468.6
Coastal / Long Distance	932.1	725.3	637.0	582.6	540.1	500.8	440.8
Non Spinnaker	883.9	718.5	630.7	579.5	547.0	524.2	492.2

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	42.6°	39.9°	39.0°	39.0°	39.5°	39.8°	41.2°
Beat VMG	3.75	4.39	4.58	4.63	4.70	4.72	4.65
52°	5.71	6.41	6.57	6.64	6.71	6.78	6.78
60°	6.01	6.63	6.80	6.88	6.96	7.09	7.12
75°	6.22	6.85	7.18	7.37	7.48	7.60	7.83
90°	6.17	6.86	7.46	7.86	8.09	8.23	8.54
110°	6.22	7.00	7.47	7.88	8.39	9.05	9.60
120°	6.08	7.01	7.71	8.20	8.71	9.29	10.25
135°	5.44	6.60	7.38	8.35	9.43	10.17	11.64
150°	4.57	5.79	6.67	7.31	8.15	9.23	11.96
Run VMG	3.96	5.01	5.76	6.33	7.06	7.99	10.36
Gybe Angles	143.2°	146.6°	151.9°	148.9°	145.9°	144.1°	145.5°