



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **116/20**
Issued On **10/07/2020**
ORC Ref **0388000MCE**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 643kg
Maximum **710kg**
Minimum* **533kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	658.8	0.9107
Non Spin OSN	638.5	0.9398

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes** 87.95
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

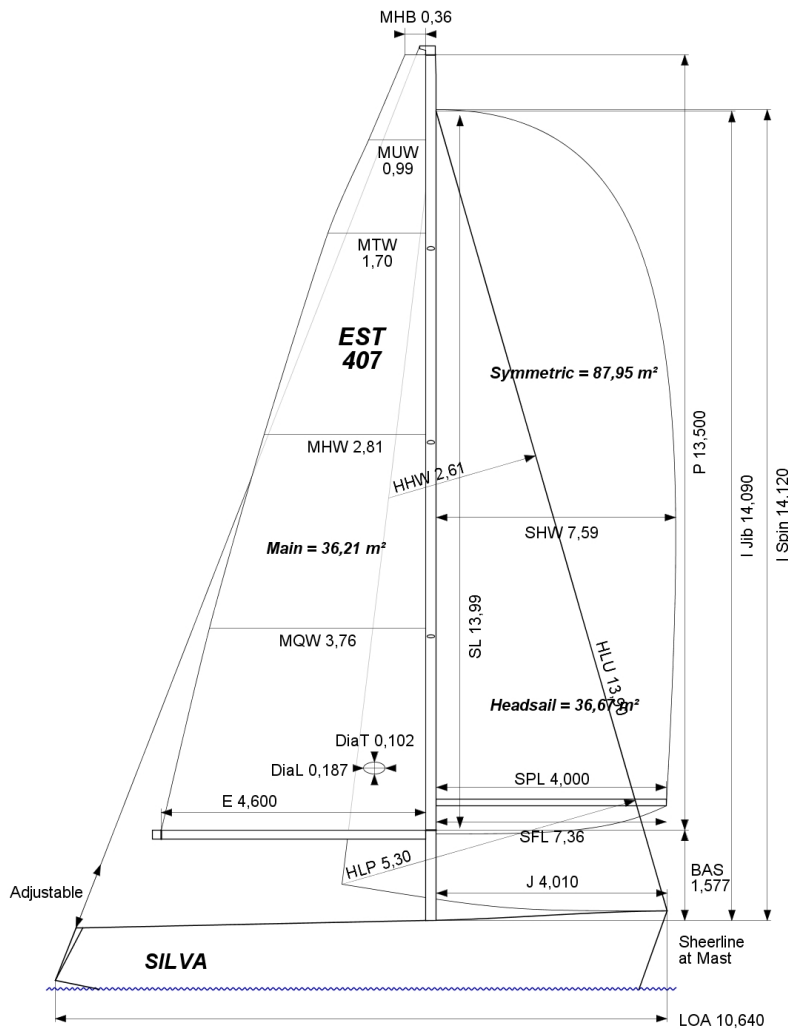
Class Division Length

CDL = 9.189

Stability (Measured)

Limit Positive Stab.: **113.9°**
Stability Index: **116.2**

Owner



BOAT	GPH	HULL
Name SILVA Sail Nr EST 407	629.5	Data File EST407 LOA 10.640m Offset File B367-NR.OFF MB 3.458m Displacement 5,780kg Draft 2.232m
CLASS Class First 36.7 Designer B.Farr Builder Beneteau S.A. Series 01/2001 Age Date 05/2006 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.158% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder Yes Light Stanchions
COMMENTS		IMSL 9.632m VCGD 0.125m Sink 19.57kg/mm RL 8.757m VCGM 0.104m WS 25.30m² LSM0 9.533m Displacement/Length ratio 6.6717
PROPELLER Installation Strut PRD 0.410 Type Folding 2 blades PIPA 0.0027		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	611.0	678.6
Time on Time	0.9819	0.9947
Triple Number	Low Medium High	Low Medium High
Time on Distance	720.8 557.8 499.2	928.3 682.4 593.0
Time on Time	0.9364 1.2102 1.3521	0.7271 0.9892 1.1383

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	1042.9	870.1	767.0	713.6	695.8	688.8	689.0
52°	686.5	582.9	529.5	507.3	498.6	495.0	493.6
60°	650.9	557.7	516.1	496.7	486.5	482.2	479.7
75°	625.5	540.8	506.4	487.5	473.5	463.1	455.1
90°	633.1	541.7	500.5	481.5	469.1	453.8	430.9
110°	646.0	536.9	494.6	470.3	448.8	432.8	414.2
120°	665.1	549.2	500.3	474.7	451.4	429.0	396.5
135°	733.8	599.0	524.4	491.3	468.3	445.4	402.4
150°	868.2	691.1	585.9	522.5	492.1	470.5	428.5
Run VMG	1002.5	798.0	675.9	594.8	538.7	502.4	459.5
Selected Courses							
Windward / Leeward	1022.7	834.1	721.5	654.2	617.3	595.6	574.2
Circular Random	865.0	699.4	610.8	559.6	528.4	508.5	484.6
Coastal / Long Distance	1020.6	784.2	652.1	575.5	537.9	508.9	462.9
Non Spinnaker	918.0	736.7	638.4	580.9	545.6	523.0	495.8

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	42.0°	40.7°	40.1°	38.6°	37.7°	37.9°	38.3°
Beat VMG	3.45	4.14	4.69	5.05	5.17	5.23	5.23
52°	5.24	6.18	6.80	7.10	7.22	7.27	7.29
60°	5.53	6.46	6.98	7.25	7.40	7.47	7.51
75°	5.76	6.66	7.11	7.38	7.60	7.77	7.91
90°	5.69	6.65	7.19	7.48	7.67	7.93	8.35
110°	5.57	6.70	7.28	7.65	8.02	8.32	8.69
120°	5.41	6.55	7.20	7.58	7.98	8.39	9.08
135°	4.91	6.01	6.87	7.33	7.69	8.08	8.95
150°	4.15	5.21	6.14	6.89	7.32	7.65	8.40
Run VMG	3.59	4.51	5.33	6.05	6.68	7.17	7.84
Gybe Angles	145.0°	150.0°	151.0°	157.0°	175.0°	180.0°	180.0°