



ORC

Offshore Racing Congress
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2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **550**
Issued On **05/08/2020**
ORC Ref **030400000W**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 766kg
Maximum **760kg**
Minimum* **570kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	594.7	1.0089
Non Spin OSN	580.0	1.0345

Sails Limitations

Headsails **6** Spinnakers **4**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 129.81**
Flying H/S: **No**
Spin. Pole: **No**

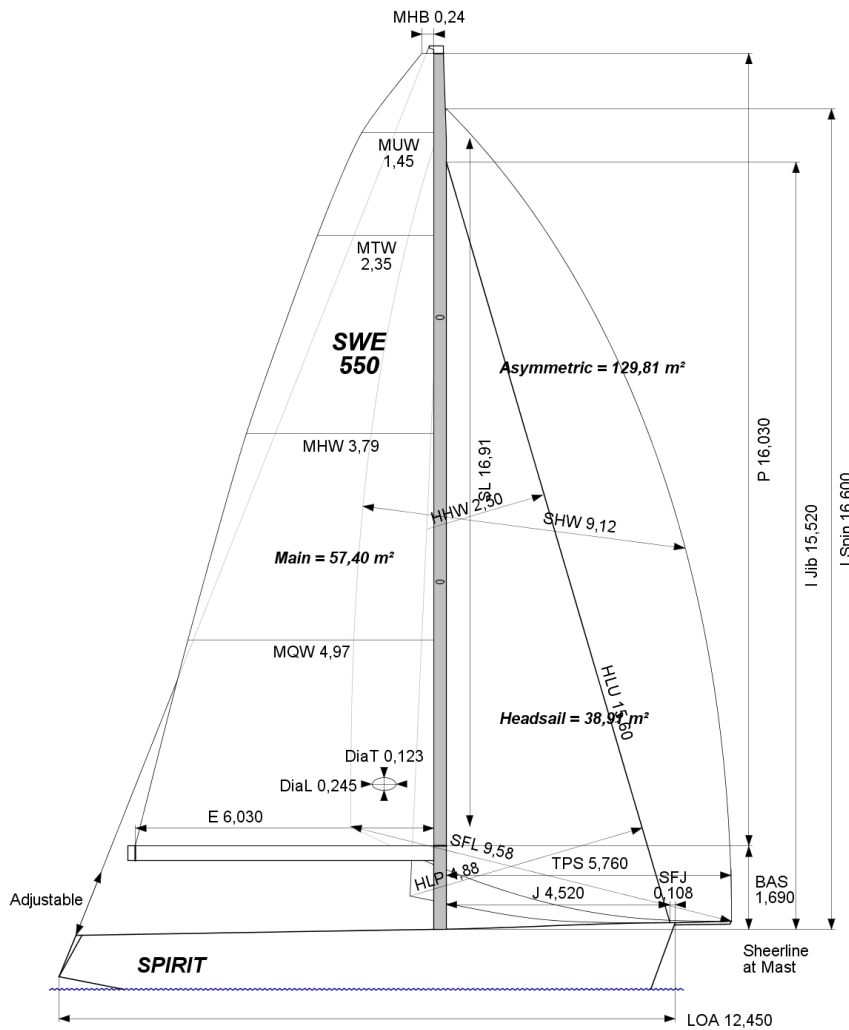
Class Division Length

CDL = 10.702

Stability (Estimated)

Limit Positive Stab.: **123.3°**
Stability Index: **130.2**

Owner



BOAT	GPH	HULL
Name SPIRIT Sail Nr SWE 550	561.8	Data File SPIRIT_SWE550 LOA 12.450m Offset File EST550.OFF MB 3.216m Displacement 6,490kg Draft 2.384m
CLASS Class GRAND SOLEIL 42 R Designer BOTIN-CARKEEK Builder DEL PARDO Series 04/2003 Age Date 06/2003 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.000% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder Yes Light Stanchions No
COMMENTS Ex. SWE 22241, ex EST-550		IMSL 11.081m VCGD -0.028m Sink 23.24kg/mm RL 10.321m VCGM -0.071m WS 29.72m² LSM0 10.777m Displacement/Length ratio 5.1850
PROPELLER Installation Strut PRD 0.439 Type Folding 2 blades PIPA 0.0037		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	547.4	616.0
Time on Time	1.0961	1.0958
Triple Number	Low Medium High	Low Medium High
Time on Distance	634.3 499.6 451.7	819.9 617.9 549.6
Time on Time	1.0641 1.3510 1.4942	0.8233 1.0924 1.2282

2020

ORC Club Certificate Appendix

BOAT	
Name	SPIRIT
Sail Nr	SWE 550
Certificate Number	550
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	929.0	761.0	682.2	657.3	646.4	635.0	629.1
52°	610.2	508.6	471.9	462.0	457.5	454.3	447.8
60°	576.8	489.5	459.5	449.5	444.6	441.9	433.3
75°	551.2	477.8	449.8	433.9	425.3	420.2	413.0
90°	555.8	473.9	449.4	429.3	411.7	398.8	387.3
110°	559.9	470.1	436.3	415.3	401.6	387.9	367.0
120°	576.7	478.6	441.6	413.7	388.3	372.1	346.2
135°	643.5	520.4	462.5	433.5	406.2	379.4	323.0
150°	765.8	610.8	516.9	466.5	443.6	421.6	374.3
Run VMG	884.3	705.3	596.9	538.0	509.0	471.7	425.1
Selected Courses							
Windward / Leeward	906.6	733.1	639.6	597.6	577.7	553.3	527.1
Circular Random	766.1	621.1	545.2	502.4	476.6	459.2	435.0
Coastal / Long Distance	904.4	689.1	578.4	520.3	489.0	460.0	415.2
Non Spinnaker	827.4	664.3	576.4	525.2	493.5	472.5	445.5

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	42.8°	41.3°	39.8°	39.0°	38.6°	38.3°	38.6°
Beat VMG	3.88	4.73	5.28	5.48	5.57	5.67	5.72
52°	5.90	7.08	7.63	7.79	7.87	7.92	8.04
60°	6.24	7.36	7.83	8.01	8.10	8.15	8.31
75°	6.53	7.53	8.00	8.30	8.46	8.57	8.72
90°	6.48	7.60	8.01	8.39	8.74	9.03	9.29
110°	6.43	7.66	8.25	8.67	8.96	9.28	9.81
120°	6.24	7.52	8.15	8.70	9.27	9.67	10.40
135°	5.59	6.92	7.78	8.31	8.86	9.49	11.15
150°	4.70	5.89	6.96	7.72	8.12	8.54	9.62
Run VMG	4.07	5.10	6.03	6.69	7.07	7.63	8.47
Gybe Angles	143.0°	146.0°	149.0°	151.3°	152.5°	176.0°	177.5°