



ORC

Offshore Racing Congress
World leader in rating technology

2020
ORC Club One
Design Certificate

Rating Office

Certificate

Number **FCL8ST**
Issued On **10/01/2020**
ORC Ref **N/A**
VPP Ver. **2020 1.00**

Invalid for Racing

Crew Weight

Default 406kg
Maximum **400kg**
Minimum* **300kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **704.4 0.8518**
Non Spin OSN **680.5 0.8817**

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes 44.50**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **7.368**

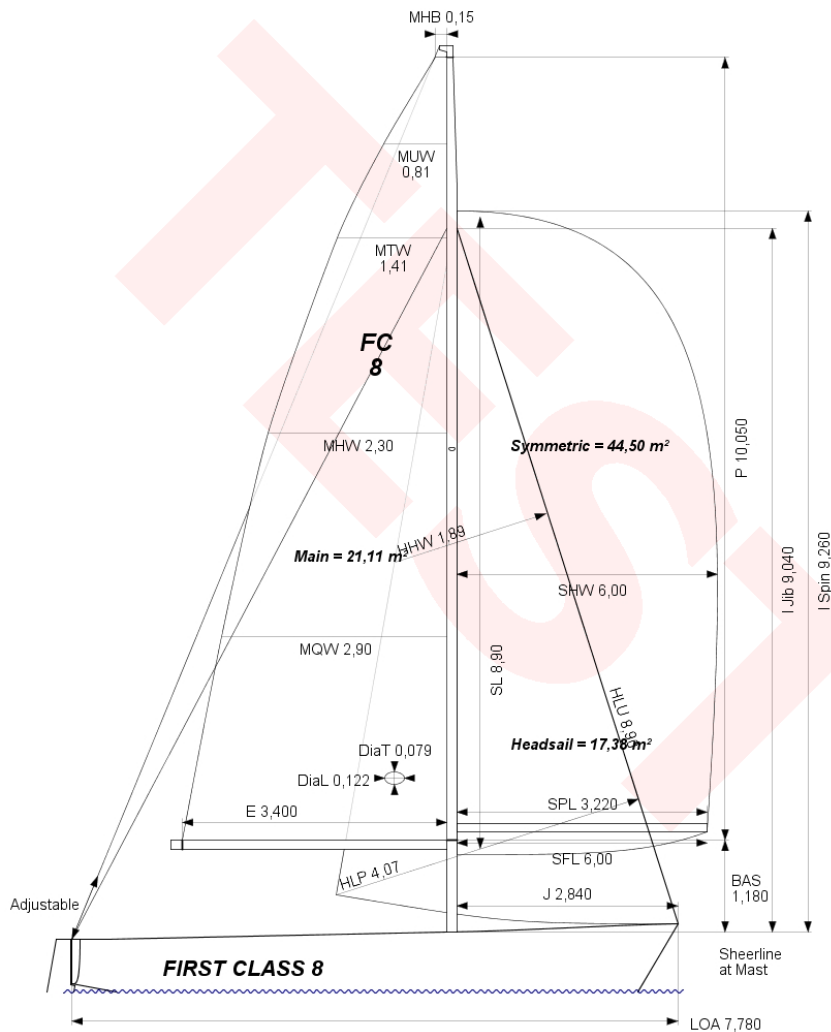
Stability (Estimated)

Limit Positive Stab.: **114.9°**
Stability Index: **108.1**

Owner

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

Signature



BOAT Name FIRST CLASS 8 Sail Nr FC8		GPH 668.8	HULL Data File Fc8 LOA 7.780m Offset File FC8.OD MB 2.498m Displacement 1467kg Draft 1.831m					
CLASS Class FIRST CLASS 8 Designer FINOT Builder BENETEAU Series 01/1986 Age Date 02/1992 Age Allowance 0.487%			IMS Division Sportboat Dynamic All. 0.000% Plan Review Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No			IMSL 7.078m VCGD -0.150m Sink 9.47kg/mm RL 7.664m VCGM -0.141m WS 12.18m² LSM0 6.909m Displacement/Length ratio 4.4482		
COMMENTS			Water Ballast 0 Trim Tab No BLR Index 0.0000			CENTERBOARD N/A		
PROPELLER Type No Propeller			SCORING OPTIONS					
		COASTAL / LONG DISTANCE			WINDWARD / LEEWARD			
Time on Distance		649.7			722.2			
Time on Time		0.9235			0.9347			
Triple Number		Low	Medium	High	Low	Medium	High	
Time on Distance		753.9	597.6	530.1	964.7	723.4	639.7	
Time on Time		0.8954	1.1295	1.2733	0.6997	0.9331	1.0551	

2020

ORC Club Certificate Appendix

BOAT	
Name	FIRST CLASS 8
Certificate Number	FCL8ST
Sail Nr	FC8
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1054.1	882.0	792.2	762.8	752.5	748.7	750.7
52°	704.4	612.4	577.1	560.9	554.1	550.3	546.4
60°	672.8	597.5	566.1	545.3	534.9	529.3	525.4
75°	653.5	587.6	556.3	527.4	506.0	495.2	486.7
90°	663.5	584.0	546.1	522.5	496.2	472.2	447.1
110°	671.7	581.0	538.0	497.4	464.5	444.4	409.9
120°	694.5	591.6	547.2	505.5	466.5	428.7	377.9
135°	770.4	636.0	574.0	535.2	496.5	458.5	376.8
150°	928.3	736.2	627.6	571.0	535.0	499.3	428.8
Run VMG	1071.9	850.9	719.8	632.9	579.9	545.2	479.0
Selected Courses							
Windward / Leeward	1063.0	866.5	756.0	697.8	666.2	647.0	614.9
Circular Random	908.6	739.9	650.2	597.7	564.1	540.6	506.7
Coastal / Long Distance	1063.9	818.6	690.3	619.3	578.1	541.6	481.1
Non Spinnaker	969.5	783.4	683.6	625.5	589.1	564.4	529.9

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	41.3°	39.8°	36.8°	35.6°	35.3°	35.3°	36.0°
Beat VMG	3.42	4.08	4.54	4.72	4.78	4.81	4.80
52°	5.11	5.88	6.24	6.42	6.50	6.54	6.59
60°	5.35	6.03	6.36	6.60	6.73	6.80	6.85
75°	5.51	6.13	6.47	6.83	7.11	7.27	7.40
90°	5.43	6.16	6.59	6.89	7.25	7.62	8.05
110°	5.36	6.20	6.69	7.24	7.75	8.10	8.78
120°	5.18	6.09	6.58	7.12	7.72	8.40	9.53
135°	4.67	5.66	6.27	6.73	7.25	7.85	9.55
150°	3.88	4.89	5.74	6.30	6.73	7.21	8.39
Run VMG	3.36	4.23	5.00	5.69	6.21	6.60	7.51
Gybe Angles	146.0°	151.0°	153.5°	171.0°	180.0°	180.0°	180.0°