



ORC

Offshore Racing Congress
World leader in rating technology

**2019 (Test)
ORC Club One
Design Certificate**

Rating Office

Certificate

Number **FCL8ST**
Issued On **11/04/2019**
ORC Ref **N/A**
VPP Ver. **2019 1.01**

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
Double H.GPH	680.0	0.8824
Double H.OSN	662.6	0.9055
Non Spin GPH	698.2	0.8594
Non Spin OSN	676.3	0.8872

Sails Limitations

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

Spinnaker configuration

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

Class Division Length

CDL = **7.415**

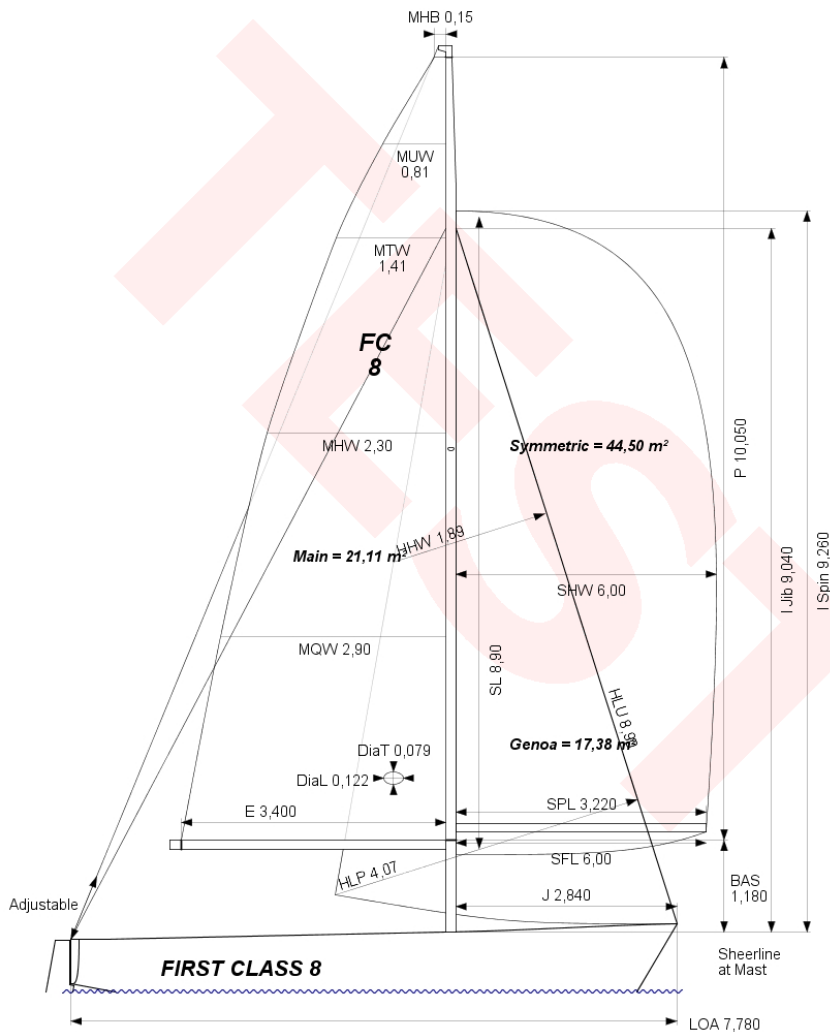
Stability (Estimated)

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

Owner

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

Signature



BOAT		GPH		HULL		
Name	FIRST CLASS 8			Data File	Fc8	
Sail Nr	FC8			Offset File	FC8.OD	
		668.8		Displacement	1.467kg	
				LOA	7.780m	
				MB	2.498m	
				Draft	1.831m	
CLASS				IMS Division	Sportboat	
Class	FIRST CLASS 8			Dynamic All.	0.000%	
Designer	FINOT			Fwd Accom.	No	
Builder	BENETEAU			Construction	Cored	
Series	01/1986			Fiber Rigging	No	
Age Date	02/1992			Crew Arm Ex	No	
Age Allowance	0.487%			Carbon Rudder	No	
				Light Stanchions	No	
COMMENTS				IMSL	7.078m	
				VCGD	-0.150m	
				Sink	9.47kg/mm	
				RL	7.751m	
				VCGM	-0.141m	
				WS	12.18m²	
				LSM0	6.909m	
				Displacement/Length ratio	4.4482	
PROPELLER				Water Ballast	0	
Type	No Propeller			Trim Tab	No	
				BLR Index	0.0000	
				CENTERBOARD		
				N/A		
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	649.4			720.7		
Time on Time	0.9239			0.9365		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	754.3	597.6	530.0	964.6	722.0	637.6
Time on Time	0.8949	1.1296	1.2736	0.6998	0.9349	1.0586

2019 (Test)

ORC Club Certificate Appendix

BOAT	
Name	FIRST CLASS 8
Certificate Number	FCL8ST
Sail Nr	FC8
Issued On	11/04/2019

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1051.6	879.5	789.1	758.5	747.6	743.3	744.3
52°	704.1	612.2	577.0	560.4	553.3	549.3	545.4
60°	673.1	597.7	566.3	545.4	534.7	528.9	525.2
75°	654.4	588.1	557.0	528.6	507.0	495.8	486.9
90°	664.8	584.5	546.9	523.2	498.1	474.1	448.3
110°	672.8	581.7	539.3	499.2	466.4	446.1	412.3
120°	695.8	592.3	548.3	507.3	468.9	431.4	379.4
135°	773.0	637.4	575.1	536.7	498.4	461.1	379.9
150°	930.5	738.1	628.7	571.8	536.5	501.1	431.9
Run VMG	1074.5	853.0	721.3	634.0	580.7	546.4	481.0
Selected Courses							
Windward / Leeward	1063.0	866.2	755.2	696.2	664.2	644.9	612.7
Circular Random	909.0	740.1	650.2	597.6	564.0	540.4	506.5
Coastal / Long Distance	1064.2	818.6	689.9	618.6	577.9	541.7	481.5
Non Spinnaker	959.4	776.0	677.8	620.3	584.1	559.1	524.3

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	41.0°	39.6°	36.6°	35.3°	34.9°	34.6°	35.3°
Beat VMG	3.42	4.09	4.56	4.75	4.82	4.84	4.84
52°	5.11	5.88	6.24	6.42	6.51	6.55	6.60
60°	5.35	6.02	6.36	6.60	6.73	6.81	6.85
75°	5.50	6.12	6.46	6.81	7.10	7.26	7.39
90°	5.41	6.16	6.58	6.88	7.23	7.59	8.03
110°	5.35	6.19	6.67	7.21	7.72	8.07	8.73
120°	5.17	6.08	6.57	7.10	7.68	8.34	9.49
135°	4.66	5.65	6.26	6.71	7.22	7.81	9.48
150°	3.87	4.88	5.73	6.30	6.71	7.18	8.34
Run VMG	3.35	4.22	4.99	5.68	6.20	6.59	7.48
Gybe Angles	146.0°	150.7°	153.3°	170.8°	180.0°	180.0°	180.0°