



ORC
Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **129/20**
Issued On **04/08/2020**
ORC Ref **03880000NW3**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 801kg
Maximum **890kg**
Minimum* **668kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	602.6	0.9957
Non Spin OSN	586.4	1.0232

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes 126.69**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

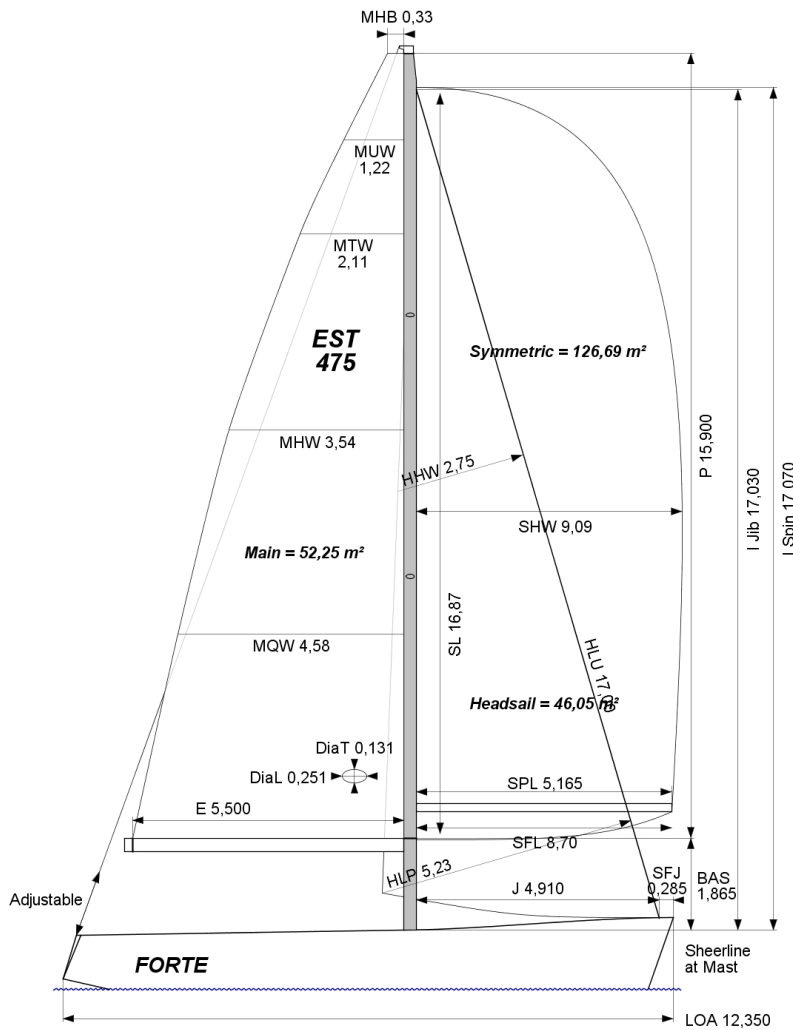
Class Division Length

CDL = 10.756

Stability (Measured)

Limit Positive Stab.: **124.0°**
Stability Index: **128.2**

Owner



BOAT		GPH	HULL			
Name FORTE Sail Nr EST 475		571.5	Data File EST475	LOA 12.350m		
			Offset File EST475.off	MB 3.646m		
			Displacement 7,177kg	Draft 2.511m		
CLASS			IMS Division Cruiser/Racer	Dynamic All. 0.005%		
Class X-41			Plan Review	Construction Cored		
Designer JEPPESEN			Fiber Rigging No	Aramid Core No		
Builder X YACHTS			Crew Arm Ex	Carbon Rudder No		
Series 01/2006			Light Stanchions			
Age Date 05/2007			IMSL 11.207m	VCGD -0.068m	Sink 23.33kg/mm	
Age Allowance 0.455%			RL 10.320m	VCGM -0.101m	WS 31.28m²	
COMMENTS			LSM0 11.118m	Displacement/Length ratio 5.2223		
			Water Ballast 0	Trim Tab No		
			BLR Index 0.0000			
PROPELLER			CENTERBOARD			
Installation Strut	PRD 0.430					
Type Folding 2 blades	PBW 0.125					
	PIPA 0.0032					
		NA				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	555.8			620.5		
Time on Time	1.0795			1.0878		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	651.0	507.3	453.9	839.8	622.7	543.7
Time on Time	1.0369	1.3306	1.4870	0.8038	1.0840	1.2416

2020

ORC Club Certificate Appendix

BOAT	
Name FORTE	Certificate Number 129/20
Sail Nr EST 475	Issued On 04/08/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	943.1	777.3	689.2	657.3	644.5	637.8	624.0
52°	619.5	520.9	478.6	464.8	459.4	456.7	449.2
60°	586.3	501.0	466.9	453.0	447.2	444.0	437.3
75°	561.1	487.8	458.7	441.5	429.5	422.9	416.9
90°	566.6	489.0	458.2	439.1	421.9	406.8	389.2
110°	586.4	487.3	449.4	425.8	409.7	396.8	376.9
120°	601.9	496.0	454.0	427.6	402.0	381.4	357.4
135°	665.7	538.4	474.7	445.4	420.4	394.9	344.4
150°	789.5	629.8	532.2	475.9	447.6	424.4	378.0
Run VMG	911.7	727.2	614.5	543.3	496.4	461.4	415.7
Selected Courses							
Windward / Leeward	927.4	752.2	651.9	600.3	570.5	549.6	519.8
Circular Random	783.3	633.9	554.6	509.1	481.1	462.2	436.3
Coastal / Long Distance	925.8	707.6	589.9	526.1	491.7	463.5	418.3
Non Spinnaker	839.1	673.4	584.0	531.7	499.3	477.7	449.2

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	42.8°	41.3°	39.8°	38.3°	37.9°	37.9°	37.7°
Beat VMG	3.82	4.63	5.22	5.48	5.59	5.64	5.77
52°	5.81	6.91	7.52	7.75	7.84	7.88	8.01
60°	6.14	7.19	7.71	7.95	8.05	8.11	8.23
75°	6.42	7.38	7.85	8.15	8.38	8.51	8.63
90°	6.35	7.36	7.86	8.20	8.53	8.85	9.25
110°	6.14	7.39	8.01	8.45	8.79	9.07	9.55
120°	5.98	7.26	7.93	8.42	8.95	9.44	10.07
135°	5.41	6.69	7.58	8.08	8.56	9.12	10.45
150°	4.56	5.72	6.76	7.56	8.04	8.48	9.52
Run VMG	3.95	4.95	5.86	6.63	7.25	7.80	8.66
Gybe Angles	142.5°	147.5°	150.0°	156.0°	170.0°	180.0°	180.0°