



ORC
Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **EST475**
Issued On **27/05/2020**
ORC Ref **03580000IVU**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 806kg
Maximum **880kg**
Minimum* **660kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	604.3	0.9929
Non Spin OSN	587.4	1.0215

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes** 128.16
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

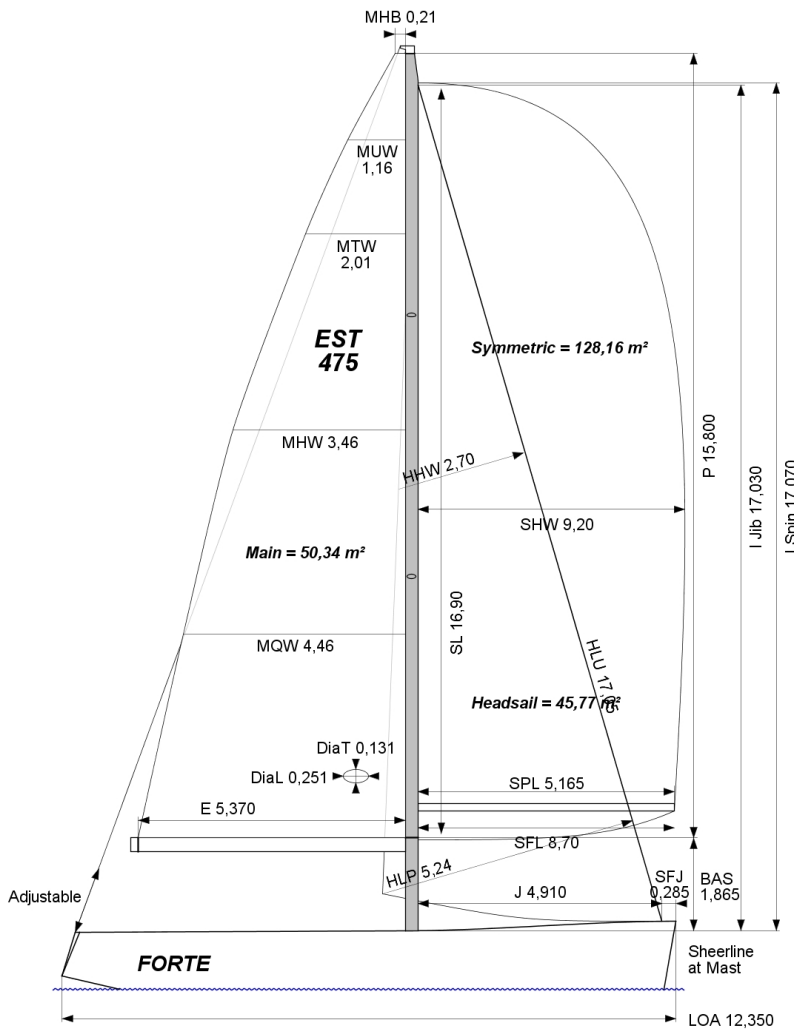
Class Division Length

CDL = 10.806

Stability (Estimated)

Limit Positive Stab.: **129.8°**
Stability Index: **134.0**

Owner



BOAT		GPH	HULL			
Name FORTE Sail Nr EST 475		571.9	Data File Est0475	LOA 12.350m		
			Offset File EST475.off	MB 3.646m		
			Displacement 7,155kg	Draft 2.517m		
CLASS			IMS Division Cruiser/Racer	Dynamic All. 0.029%		
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 11.179m	VCGD -0.169m	Sink 22.74kg/mm	
Age Allowance 0.455%			RL 10.431m	VCGM -0.204m	WS 30.88m²	
COMMENTS			LSM0 11.172m	Displacement/Length ratio 5.1312		
			Water Ballast 0	Trim Tab No		
			BLR Index 0.0000			
PROPELLER			CENTERBOARD			
Installation Strut	PRD 0.430		N/A			
Type Folding 2 blades	PBW 0.125					
	PIPA 0.0032					
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	555.6			620.0		
Time on Time	1.0799			1.0887		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	654.1	506.9	451.9	843.6	622.2	541.1
Time on Time	1.0320	1.3315	1.4938	0.8001	1.0848	1.2474

2020

ORC Club Certificate Appendix

BOAT	
Name FORTE	Certificate Number EST475
Sail Nr EST 475	Issued On 27/05/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	949.9	782.7	689.8	653.8	639.6	632.9	617.8
52°	624.3	523.8	478.8	462.8	457.0	454.0	447.4
60°	590.9	503.1	467.3	451.8	444.9	441.2	435.5
75°	565.7	489.6	459.4	441.4	428.1	420.1	413.0
90°	571.8	491.2	458.5	439.9	422.3	406.3	385.6
110°	588.9	488.1	449.4	425.3	408.4	395.7	374.4
120°	604.2	496.9	454.1	427.6	401.7	380.3	355.7
135°	667.4	539.8	475.0	445.3	420.2	394.8	344.2
150°	790.6	631.3	533.2	476.1	447.7	424.4	378.1
Run VMG	913.0	729.0	615.6	543.7	496.9	461.6	416.0
Selected Courses							
Windward / Leeward	931.5	755.8	652.7	598.8	568.2	547.3	516.9
Circular Random	786.0	635.3	554.9	508.5	479.8	460.4	433.7
Coastal / Long Distance	929.6	710.8	590.6	525.0	490.1	461.6	416.1
Non Spinnaker	844.1	676.4	585.5	532.1	498.9	476.7	447.5

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°	39.9°	38.3°	38.3°	37.9°	37.5°
Beat VMG	3.79	4.60	5.22	5.51	5.63	5.69	5.83
52°	5.77	6.87	7.52	7.78	7.88	7.93	8.05
60°	6.09	7.16	7.70	7.97	8.09	8.16	8.27
75°	6.36	7.35	7.84	8.16	8.41	8.57	8.72
90°	6.30	7.33	7.85	8.18	8.52	8.86	9.34
110°	6.11	7.38	8.01	8.46	8.82	9.10	9.62
120°	5.96	7.24	7.93	8.42	8.96	9.47	10.12
135°	5.39	6.67	7.58	8.08	8.57	9.12	10.46
150°	4.55	5.70	6.75	7.56	8.04	8.48	9.52
Run VMG	3.94	4.94	5.85	6.62	7.25	7.80	8.65
Gybe Angles	142.5°	147.5°	149.5°	155.5°	169.0°	180.0°	180.0°