



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **EST499**
Issued On **29/05/2020**
ORC Ref **03580000J3N**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 788kg
Maximum **875kg**
Minimum* **656kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	602.8	0.9954
Non Spin OSN	586.9	1.0224

Sails Limitations

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

Asymmetric on centerline

Spinnaker configuration
Symmetric: **Yes** 137.13
Asymmetric: **Yes** 161.26
Flying H/S: **No**
Spin. Pole: **Yes**

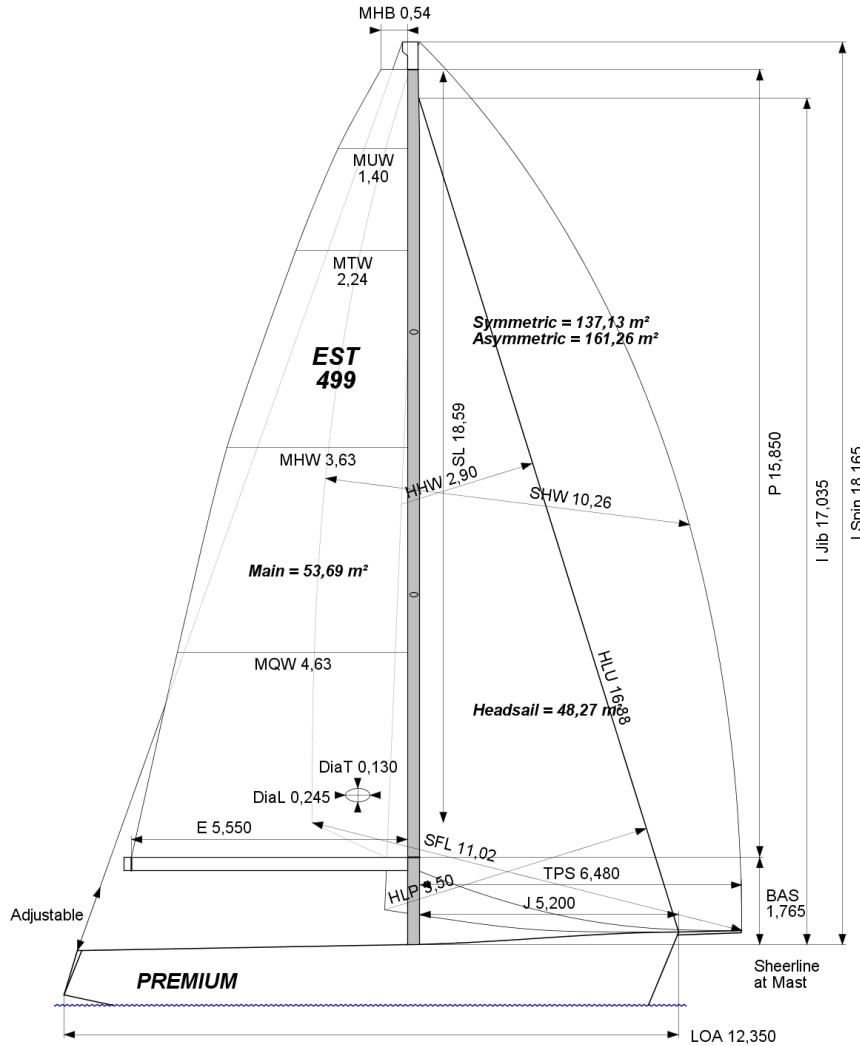
Class Division Length

CDL = 10.602

Stability (Measured)

Limit Positive Stab.: **128.8°**
Stability Index: **132.6**

Owner



BOAT		GPH	HULL			
Name PREMIUM Sail Nr EST 499		567.0	Data File Est0499	LOA 12.350m		
			Offset File EST499.off	MB 3.646m		
			Displacement 6,996kg	Draft 2.316m		
CLASS			IMS Division Cruiser/Racer	Dynamic All. 0.004%		
Class X-41 mod			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 07/2016			IMSL 11.108m	VCGD -0.174m	Sink 23.07kg/mm	
Age Allowance 0.455%			RL 10.106m	VCGM -0.193m	WS 32.57m²	
COMMENTS			LSM0 10.990m	Displacement/Length ratio 5.2706		
			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					
		N/A				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	552.2			618.6		
Time on Time	1.0866			1.0911		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	644.4	503.6	450.4	834.4	620.5	543.4
Time on Time	1.0475	1.3403	1.4986	0.8090	1.0879	1.2421

2020

ORC Club Certificate Appendix

BOAT							
Name	PREMIUM	Certificate Number			EST499		
Sail Nr	EST 499	Issued On			29/05/2020		

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	954.7	782.6	695.3	664.2	651.0	641.0	630.5
52°	623.2	520.8	478.4	465.3	459.8	457.0	448.9
60°	587.5	499.6	465.9	452.6	446.8	443.6	435.2
75°	560.3	485.8	456.7	439.3	427.4	420.9	414.9
90°	565.0	482.5	455.9	436.0	417.7	402.4	385.7
110°	564.3	474.2	440.7	420.0	406.2	392.6	369.4
120°	577.7	480.8	444.3	416.1	391.3	375.6	349.4
135°	649.0	519.4	463.3	434.6	406.5	379.3	322.6
150°	771.1	614.6	518.1	467.7	442.0	416.8	365.1
Run VMG	890.4	709.7	598.2	535.6	490.8	456.9	408.8
Selected Courses							
Windward / Leeward	922.6	746.2	646.8	599.9	570.9	548.9	519.6
Circular Random	776.6	628.6	550.2	505.4	477.6	458.6	431.8
Coastal / Long Distance	919.3	700.8	584.9	523.7	489.3	460.6	413.7
Non Spinnaker	841.3	674.3	584.1	531.3	498.5	476.6	447.8

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	43.1°	42.0°	40.5°	39.0°	39.0°	38.3°	38.6°
Beat VMG	3.77	4.60	5.18	5.42	5.53	5.62	5.71
52°	5.78	6.91	7.52	7.74	7.83	7.88	8.02
60°	6.13	7.21	7.73	7.95	8.06	8.12	8.27
75°	6.43	7.41	7.88	8.19	8.42	8.55	8.68
90°	6.37	7.46	7.90	8.26	8.62	8.95	9.33
110°	6.38	7.59	8.17	8.57	8.86	9.17	9.74
120°	6.23	7.49	8.10	8.65	9.20	9.59	10.30
135°	5.55	6.93	7.77	8.28	8.86	9.49	11.16
150°	4.67	5.86	6.95	7.70	8.15	8.64	9.86
Run VMG	4.04	5.07	6.02	6.72	7.33	7.88	8.81
Gybe Angles	143.0°	146.0°	148.0°	156.0°	170.0°	180.0°	180.0°