



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Offshore
Racing
Congress



Certificate

Number **139/20**
Issued On **04/08/2020**
ORC Ref **0388000NWA**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 628kg
Maximum **692kg**
Minimum* **519kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	650.5	0.9224
Non Spin OSN	631.1	0.9507

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes** **94.27**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

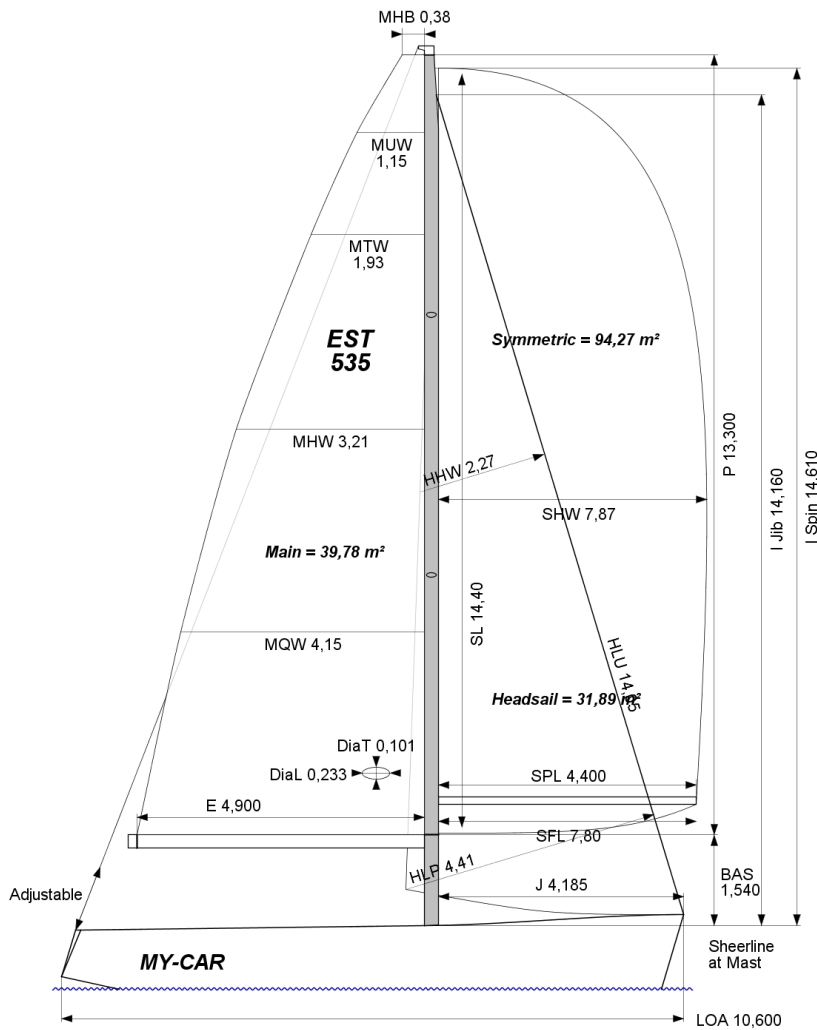
Class Division Length

CDL = 9.128

Stability (Estimated)

Limit Positive Stab.: **129.5°**
Stability Index: **130.9**

Owner



BOAT		GPH	HULL			
Name MY-CAR		616.2	Data File EST535	LOA 10.600m		
Sail Nr EST 535			Offset File X35mk2DEFmkr	MB 3.250m		
			Displacement 4,703kg	Draft 2.006m		
CLASS		IMS Division Cruiser/Racer				
Class X-35 mod	Designer JEPPESEN	Dynamic All. 0.094%	Plan Review	Construction Cored		
Builder X YACHTS	Series 09/2005	Fiber Rigging Yes	Crew Arm Ex	Aramid Core No		
Age Date 09/2008	Age Allowance 0.487%	Light Stanchions No	Carbon Rudder No			
COMMENTS		IMSL 9.494m VCGD -0.180m Sink 17.50kg/mm				
Boat weight declared		RL 8.771m VCGM -0.197m WS 24.73m²				
PROPELLER		LSM0 9.374m Displacement/Length ratio 5.7095				
Installation Strut	PRD 0.420	Water Ballast 0 Trim Tab No				
Type Folding 2 blades	PBW 0.128	BLR Index 0.0000				
	PIPA 0.0033	CENTERBOARD				
		N/A				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	598.5			668.2		
Time on Time	1.0025			1.0102		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	706.1	545.7	486.0	911.8	669.5	583.7
Time on Time	0.9560	1.2370	1.3889	0.7403	1.0082	1.1565

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ORC Club Certificate Appendix

BOAT			
Name	MY-CAR	Certificate Number	139/20
Sail Nr	EST 535	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	1046.8	860.9	755.3	713.0	696.9	690.4	678.1
52°	682.4	572.0	520.3	501.4	494.7	491.4	484.9
60°	642.7	546.9	507.0	489.0	480.9	476.6	470.8
75°	613.0	530.0	497.3	477.0	461.5	452.1	444.5
90°	621.0	530.1	492.1	474.8	454.8	436.4	413.6
110°	624.5	521.2	482.2	454.6	434.4	420.8	397.6
120°	641.9	530.3	487.2	457.3	428.6	404.2	376.3
135°	709.1	573.4	508.4	476.9	448.4	420.8	364.0
150°	839.7	666.8	563.4	507.4	478.1	451.8	401.3
Run VMG	969.6	770.0	649.9	575.5	524.0	490.3	440.2
Selected Courses							
Windward / Leeward	1008.2	815.4	702.6	644.2	610.5	590.4	559.1
Circular Random	848.3	685.0	597.8	547.4	516.3	495.4	466.6
Coastal / Long Distance	1004.3	766.0	635.7	565.8	527.4	496.5	446.4
Non Spinnaker	909.9	728.5	630.1	572.5	536.8	513.0	481.3

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	42.8°	41.6°	40.5°	39.0°	38.6°	38.6°	38.4°
Beat VMG	3.44	4.18	4.77	5.05	5.17	5.21	5.31
52°	5.28	6.29	6.92	7.18	7.28	7.33	7.42
60°	5.60	6.58	7.10	7.36	7.49	7.55	7.65
75°	5.87	6.79	7.24	7.55	7.80	7.96	8.10
90°	5.80	6.79	7.32	7.58	7.92	8.25	8.70
110°	5.76	6.91	7.47	7.92	8.29	8.55	9.05
120°	5.61	6.79	7.39	7.87	8.40	8.91	9.57
135°	5.08	6.28	7.08	7.55	8.03	8.55	9.89
150°	4.29	5.40	6.39	7.10	7.53	7.97	8.97
Run VMG	3.71	4.68	5.54	6.26	6.87	7.34	8.18
Gybe Angles	145.0°	148.5°	151.0°	158.0°	180.0°	180.0°	180.0°