



ORC
Offshore Racing Congress
World leader in rating technology

**2019
ORC Club
Certificate**

Rating Office

EYU
Purje 8
11911, Tallinn
Estonia

Certificate

Number **EST535**
Issued On **9/23/2019**
ORC Ref **EST00000866**
VPP Ver. **2019 1.01**
Valid until **12/31/2019**

Crew Weight

Default 630kg
Maximum **700kg**
Minimum* **525kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	624.6	0.9606
Double H.OSN	608.7	0.9858
Non Spin GPH	648.7	0.9249
Non Spin OSN	629.4	0.9534

Sails Limitations

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

Spinnaker configuration

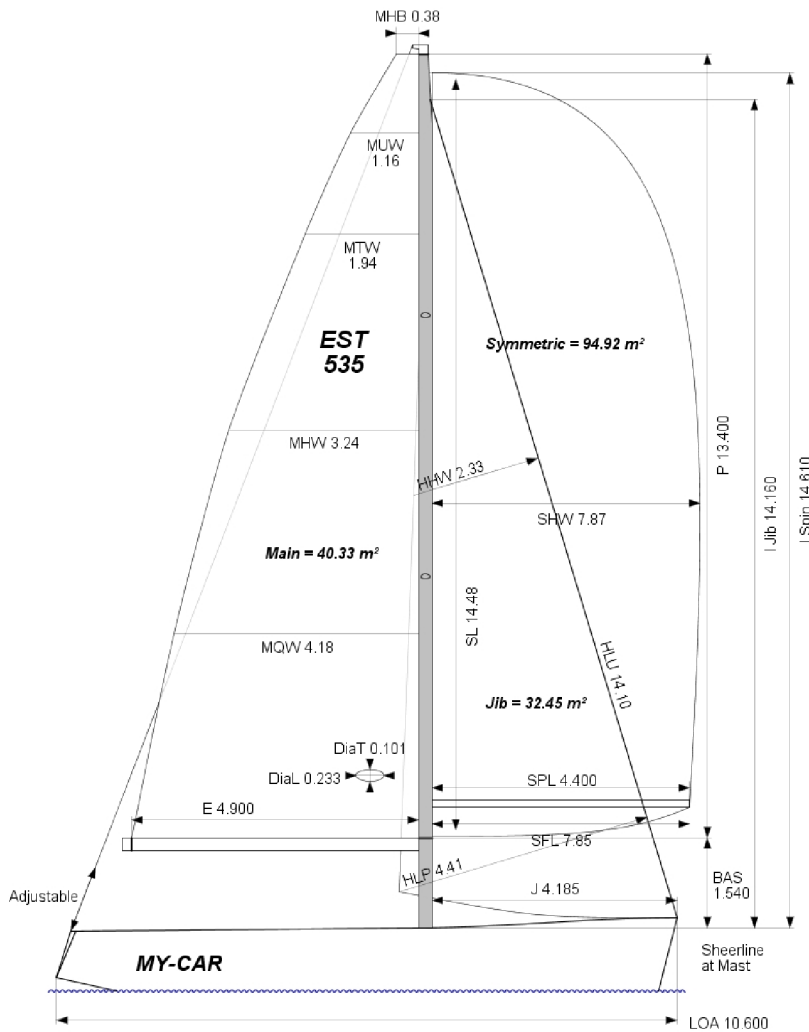
Symmetric: **Yes** **94.92**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 9.192

Stability (Estimated)

Limit Positive Stab.: **128.7°**
Stability Index: **130.4**



BOAT		GPH		HULL			
Name	MY-CAR	614.9	Data File	Est0535	LOA	10.600m	
Sail Nr	EST 535		Offset File	X35mk2DEFmkr	MB	3.250m	
			Displacement	4,782kg	Draft	2.014m	
CLASS							
Class	X-35 mod	IMS Division Cruiser/Racer Dynamic All. 0.080%					
Designer	JEPPESEN	Fwd Accom. Yes Construction Cored					
Builder	X YACHTS	Fiber Rigging Yes Aramid Core No					
Series	09/2005	Crew Arm Ex Carbon Rudder No					
Age Date	09/2008	Light Stanchions No					
Age Allowance	0.455%	IMSL	9.518m	VCGD	-0.152m	Sink	17.42kg/mm
		RL	8.864m	VCGM	-0.175m	WS	24.75m²
		LSM0	9.402m	Displacement/Length ratio			5.7537
COMMENTS		Water Ballast 0 Trim Tab No					
Boat weight declared		BLR Index 0.0000					
PROPELLER		CENTERBOARD					
Installation	Strut	PRD	0.420	N/A			
Type	Folding 2 blades	PBW	0.128				
		PIPA	0.0033				
SCORING OPTIONS							
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD			
Time on Distance	597.4			666.2			
Time on Time	1.0044			1.0133			
Triple Number	Low	Medium	High	Low	Medium	High	
Time on Distance	703.9	544.7	485.6	908.6	667.5	581.7	
Time on Time	0.9589	1.2392	1.3900	0.7429	1.0112	1.1604	

BOAT	
Name MY-CAR	Sail Nr EST 535
File Est0535	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 23/09/2019		SG 1.0000	
FFM	FF 1.241	SFFP	0.075
FAM	FA 1.026	SAFP	10.275
LCF from stem on CL / on sheer		5.825 / 6.025	
Maximum beam station from stem		7.300	
RM Measured		125.2kg·m	
RM Default		121.6kg·m	
Limit of positive stability / Stab.Index		128.7° / 130.4	
Freeboard at mast at 4.185		1.075	



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2019
Measurements
Datasheet

RIG			
Forestay Tension Aft	Spreaders 2		Runners 0
Inner Stay None Fitted	Carbon Mast Yes		Jumper Struts None
Taper Hollows No	Fiber Rigging Yes		Jib Furler No
Lenticular Rigging No	Main Furler No		Without Backstay No
Articulated Bowsprit No			
P 13.400	E 4.900	MDT1 0.101	MW 0.225
IG 14.160	J 4.185	MDL1 0.233	GO 0.242
ISP 14.610	SFJ	MDT2 0.076	BD 0.220
BAS 1.540	SPL 4.400	MDL2 0.160	MWT 94.00
FSP 0.068	TPS	TL 1.250	MCG 5.100

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.420		
Type Folding 2 blades	PBW 0.128		
Twin Screw No	PIPA 0.0033		
ST1 0.042	ST3 0.182	ST5 0.255	
ST2 0.178	ST4 0.112	EDL 1.740	

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VPP Ver. 2019 1.01	
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COMMENTS	
Boat weight declared	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
9	0.38	1.16	1.94	3.24	4.18	40.20	EST 7	09/06/2018	OneSails	Unknown	P13,40;E4,90					
7a	0.43	1.10	1.81	3.03	4.01	38.55	EST 7	09/06/2018	OneSails	Unknown	P13,40;E4,88					
HEADSAILS (6)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
11a	0.21	0.72	1.28	2.33	3.34	4.41	14.10	105%	32.45			EST 7	09/06/2018	OneSails	Unknown	Code 2
10a	0.22	0.70	1.26	2.31	3.33	4.42	14.14	106%	32.40			EST 7	09/06/2018	OneSails	Unknown	Code 1
14	0.09	0.63	1.20	2.21	3.30	4.39	14.38	105%	32.09			EST 8	31/07/2019		Unknown	JIB 2-2019
8a	0.10	0.65	1.23	2.32	3.33	4.20	14.10	100%	31.59			EST 1	17/05/2016	OneSails	Unknown	JibTop
12	0.14	0.58	1.09	2.15	3.26	4.42	13.36	106%	29.30			SLO 03	08/06/2017	OneSails	Unknown	Code 3
13	0.10	0.55	0.99	1.82	2.61	3.32	12.42	79%	22.00			SLO 03	25/04/2017	OneSails	Unknown	
SYMMETRIC SPINNAKERS (4)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
11	14.48	14.48	14.48	7.87	7.85	94.92	SLO 03	20/05/2019		Unknown	S 2					
10	14.44	14.44	14.44	7.80	8.10	94.59	SLO 03	20/05/2019		Unknown	S 1					
8	14.05	14.05	14.05	6.54	6.76	77.09	SLO 03	25/04/2017		Unknown	Reacher					
3	13.95	13.95	13.95	6.25	6.80	73.94	EST 1	09/09/2013		Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2009

ORC Club Certificate Appendix

BOAT	
Name MY-CAR	Certificate Number EST535
Sail Nr EST 535	Issued On 9/23/2019

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1038.6	855.3	750.6	709.2	693.1	686.2	673.3
52°	678.9	569.3	518.8	500.4	493.8	490.5	483.7
60°	640.3	545.1	505.9	488.3	480.4	476.2	470.1
75°	611.3	528.9	496.6	476.7	461.6	452.5	444.9
90°	619.4	529.2	491.6	474.6	455.0	437.1	414.7
110°	624.0	520.8	482.2	455.1	435.3	422.6	399.7
120°	641.7	530.1	487.2	457.9	429.6	405.6	378.3
135°	708.8	573.5	508.5	477.2	449.2	422.0	366.7
150°	839.8	667.6	563.8	507.5	478.5	452.6	402.9
Run VMG	969.7	770.9	650.6	575.6	524.0	490.4	441.0
Selected Courses							
Windward / Leeward	1004.1	813.1	700.6	642.4	608.5	588.3	557.1
Circular Random	845.8	683.3	596.5	546.5	515.6	494.9	466.4
Coastal / Long Distance	1000.7	764.1	634.2	564.6	526.7	496.1	446.8
Non Spinnaker	906.5	726.1	628.4	571.2	535.9	512.6	482.0

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	42.7°	41.5°	40.4°	38.8°	38.5°	38.1°	38.1°
Beat VMG	3.47	4.21	4.80	5.08	5.19	5.25	5.35
52°	5.30	6.32	6.94	7.19	7.29	7.34	7.44
60°	5.62	6.60	7.12	7.37	7.49	7.56	7.66
75°	5.89	6.81	7.25	7.55	7.80	7.96	8.09
90°	5.81	6.80	7.32	7.59	7.91	8.24	8.68
110°	5.77	6.91	7.47	7.91	8.27	8.52	9.01
120°	5.61	6.79	7.39	7.86	8.38	8.88	9.52
135°	5.08	6.28	7.08	7.54	8.01	8.53	9.82
150°	4.29	5.39	6.39	7.09	7.52	7.95	8.94
Run VMG	3.71	4.67	5.53	6.25	6.87	7.34	8.16
Gybe Angles	144.8°	148.7°	150.7°	157.8°	180.0°	180.0°	180.0°