

BOAT Name MY-CAR Sail Nr EST 535	GPH 612.4	HULL Length Overall 10.600m Maximum Beam 3.250m Displacement 4,632kg Draft 2.000m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.066% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class X-35 mod Designer JEPPESEN Builder X YACHTS Series 09/2005 Age 09/2008 Age Allowance 0.422% Offset File X35mk2DEFmkRud.off - 6/11/2017 Measurement by Tetsmann - 09/06/2018		IMSL 9.482m VCGD -0.166m Sink 17.52kg/mm RL 8.899m VCGM -0.179m WS 24.67m² LSMO 9.315m Displacement/Length ratio 5.7309



Rating Office EYU Regati 1 11911, Tallinn Estonia
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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	594.3			663.2		
Time on Time	1.0095			1.0177		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	702.2	542.0	482.7	904.8	664.2	579.8
Time on Time	0.9612	1.2453	1.3985	0.7460	1.0163	1.1641

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1039.7	855.4	749.7	707.9	691.9	685.8	674.5
52°	682.2	569.3	518.1	499.5	492.9	489.8	483.4
60°	646.1	545.4	505.2	487.4	479.2	475.0	469.1
75°	619.5	530.2	496.1	475.4	459.5	450.1	442.7
90°	626.6	526.4	490.5	473.8	452.7	434.2	411.5
110°	621.4	517.5	479.0	451.4	432.4	418.6	394.7
120°	636.7	526.4	484.0	453.1	424.2	400.7	372.8
135°	700.9	566.9	504.2	473.0	443.6	415.2	355.3
150°	831.9	661.5	557.7	503.0	474.2	447.2	395.5
Run VMG	960.5	763.8	643.7	569.8	520.5	487.5	436.6

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Crew Weight Default 622kg Maximum 770kg Minimum* 578kg <i>*when applied by the NoR and SI</i> Non Manual Pwr No

Special Scoring ToD ToT Double H.GPH 617.4 0.9718 Double H.OSN 601.4 0.9976 Non Spin GPH 648.2 0.9256 Non Spin OSN 628.2 0.9551

Selected Courses							
	1000.2	809.6	696.7	638.8	606.2	586.6	555.6
Windward / Leeward	1000.2	809.6	696.7	638.8	606.2	586.6	555.6
Circular Random	843.9	681.0	594.0	543.8	512.8	492.0	463.1
Coastal / Long Distance	996.2	760.7	630.9	561.7	523.9	493.2	443.5
Non Spinnaker	907.7	726.2	627.8	570.3	534.7	511.2	480.4

Sails Limitations Headsails 5 Spinnakers 3
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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°	40.4°	39.2°	38.5°	38.3°	38.2°
Beat VMG	3.46	4.21	4.80	5.09	5.20	5.25	5.34
52°	5.28	6.32	6.95	7.21	7.30	7.35	7.45
60°	5.57	6.60	7.13	7.39	7.51	7.58	7.67
75°	5.81	6.79	7.26	7.57	7.83	8.00	8.13
90°	5.75	6.84	7.34	7.60	7.95	8.29	8.75
110°	5.79	6.96	7.52	7.98	8.33	8.60	9.12
120°	5.65	6.84	7.44	7.95	8.49	8.98	9.66
135°	5.14	6.35	7.14	7.61	8.12	8.67	10.13
150°	4.33	5.44	6.46	7.16	7.59	8.05	9.10
Run VMG	3.75	4.71	5.59	6.32	6.92	7.39	8.25
Gybe Angles	141.0°	148.6°	150.4°	158.0°	180.0°	180.0°	180.0°

Class Division Length CDL = 9.191
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Storm Sails Areas Heavy Weather Jib 27.29 Storm Jib (JL=9.24) 10.11 Storm Trysail 11.49
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BOAT	
Name MY-CAR	Sail Nr EST 535
File Est0535	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 09/06/2018		SG 1.0000	
FFM 1.287	FF 1.296	SFFP 0.075	
FAM 0.993	FA 0.999	SAFP 10.275	
W1 80.3	PD1 597.7	WD 11.740	
W2 80.3	PD2 595.7	GSA 1.0	
W3 80.3	PD3 594.5	RSA 1.0	
W4 80.3	PD4 594.8	PLM 9000.0	
LCF from stem on CL / on sheer		5.914 / 6.112	
Maximum beam station from stem		7.300	
RM Measured		124.6kg·m	
RM Default		121.2kg·m	
Limit of positive stability / Stab.Index		128.5° / 129.6	
Freeboard at mast at 4.185		1.098	



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IMS Measurement Certificate

RIG				
Forestay Tension Aft	Spreaders 2			
Inner Stay None Fitted	Runners 0			
Carbon Mast Yes	Jumper Struts None			
Taper Hollows No	Jib Furler No			
Fiber Rigging Yes	Main Furler No			
Lenticular Rigging 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	

Certificate

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 ORC Ref **EST00000209**
 Issued On **6/19/2018**
 VPP Ver. **2018 1.00**
 Valid until **12/31/2018**

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

COMMENTS

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area Area (r) Formula
	0.375	1.16	1.94	3.24	4.18	40.33 41.34 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	SLU	SLE	SL	SHW	SFL	102.00 SL · (SFL + 4·SHW) / 6
	14.97	14.97	14.97	8.18	8.16	
Asymmetric	Not Available					

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.21	0.72	1.28	2.33	3.34	4.41	14.10	32.45			09/06/2018	Unknow	Code 2
0.22	0.70	1.26	2.31	3.33	4.42	14.14	32.40			09/06/2018	Unknow	Code 1
0.10	0.65	1.23	2.32	3.33	4.20	14.10	31.59			17/05/2016	Unknow	JibTop
0.14	0.58	1.09	2.15	3.26	4.42	13.36	29.30			08/06/2017	Unknow	Code 3
0.10	0.55	0.99	1.82	2.61	3.32	12.42	22.00			25/04/2017	Unknow	

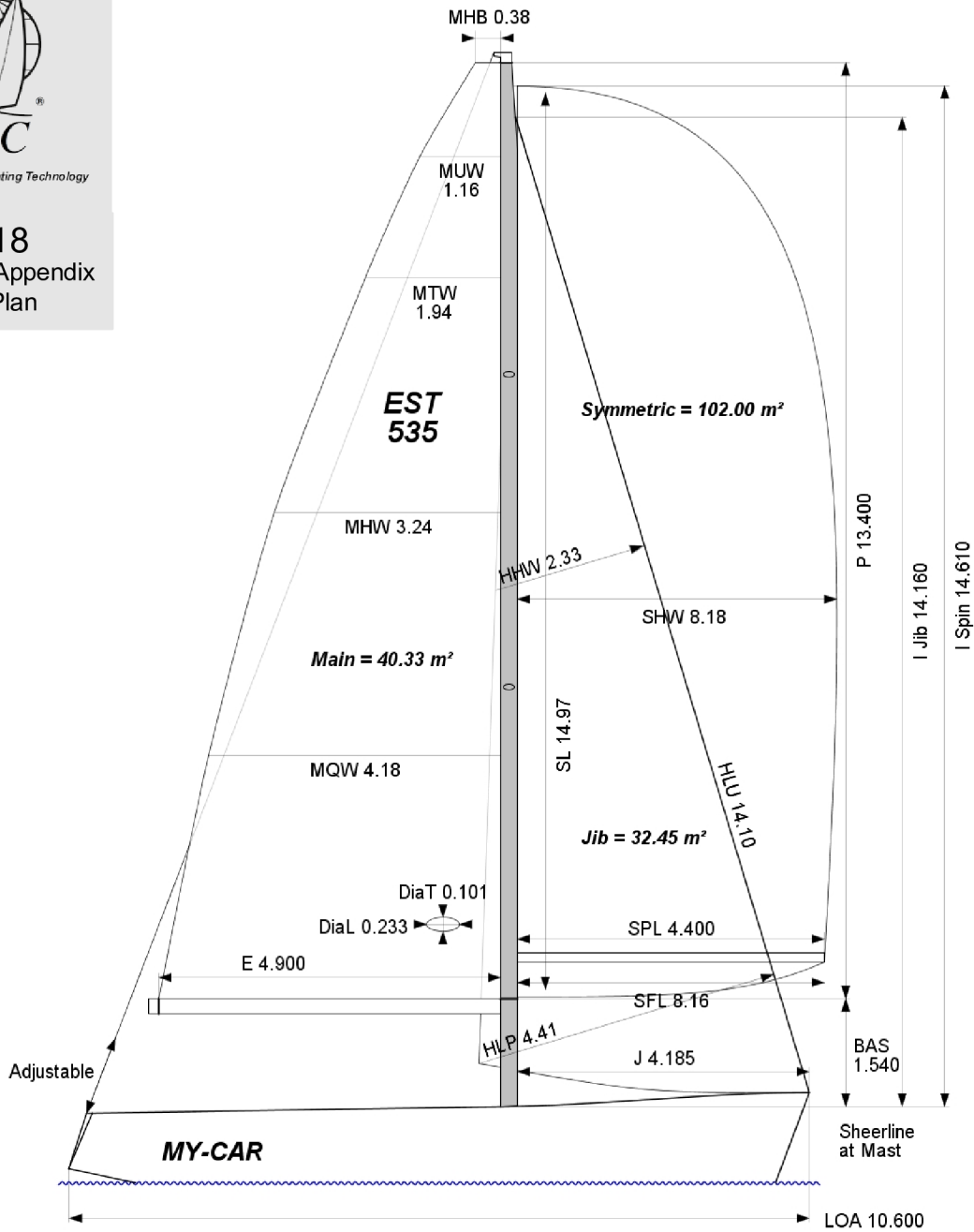
MEASUREMENT INVENTORY				
Measurer Karl- Hannes tagu EST 7				
Date 09/06/2018				
Comment Tallinn - Pirta				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	Yanmar	3YM20C	
Id	Item	Weight	Description	

MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
1	Tank fuel		st.stl	60.0	6.15		40.0 fuel
2	Tank water		pvc	120.0	5.50		0.0 Water
Id	Item	Weight	Distance	VCG	Description		
1	Battery		4.85		90 Ah		
2	Battery		5.20		30 Ah		
Re	Misc				Removed decorative wall panels		



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (2)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
9	0.375	1.16	1.94	3.24	4.18	40.20	EST 7	09/06/2018	OneSails	Unknown	P13,40;E4,90
7a	0.430	1.10	1.81	3.03	4.01	38.54	EST 7	09/06/2018	OneSails	Unknown	P13,40;E4,88

HEADSAILS (5)

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
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 (5)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
6	14.97	14.97	14.97	8.18	8.16	102.00	SLO 03	25/04/2017		Unknown	VMG
9	14.98	14.98	14.98	8.22	7.95	101.94	SLO 03	15/07/2017		Unknown	
7	14.95	14.95	14.95	8.26	7.72	101.56	SLO 03	25/04/2017		Unknown	Runner
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
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