

GPH = **617.1** CDL = **9.110**

**BOAT**

Class **X-35 mod**  
Designer **JEPPESEN**  
Builder **X YACHTS**  
Age Date **09/2008**  
Series Date **09/2005**  
Offset File **x35-EST535.off**

**HULL**

Length Overall **10.600 m**  
Maximum Beam **3.250 m**  
Draft **2.008 m**  
Displacement **4,753 kg**  
DLR **5.7450**  
IMS Division **Cruiser/Racer**  
Dynamic Allowance **0.104%**  
Age Allowance **0.487%**

**PROPELLER**

Installation **Strut**  
Type **Folding 2 blades**  
Diameter **0.420m**

**CREW**

Maximum weight **670 kg**  
Minimum weight **503 kg \* when applied**  
Non Manual Power **No**  
Crew Arm Extension

**SAIL AREAS (m<sup>2</sup>)**

	Measured	Rated
Mainsail	<b>39.66</b>	<b>40.75</b>
Headsail Luffed	<b>31.89</b>	<b>31.89</b>
Headsail Flying		
Symmetric	<b>94.27</b>	<b>94.27</b>
Asymmetric		

**SAIL LIMITATIONS**

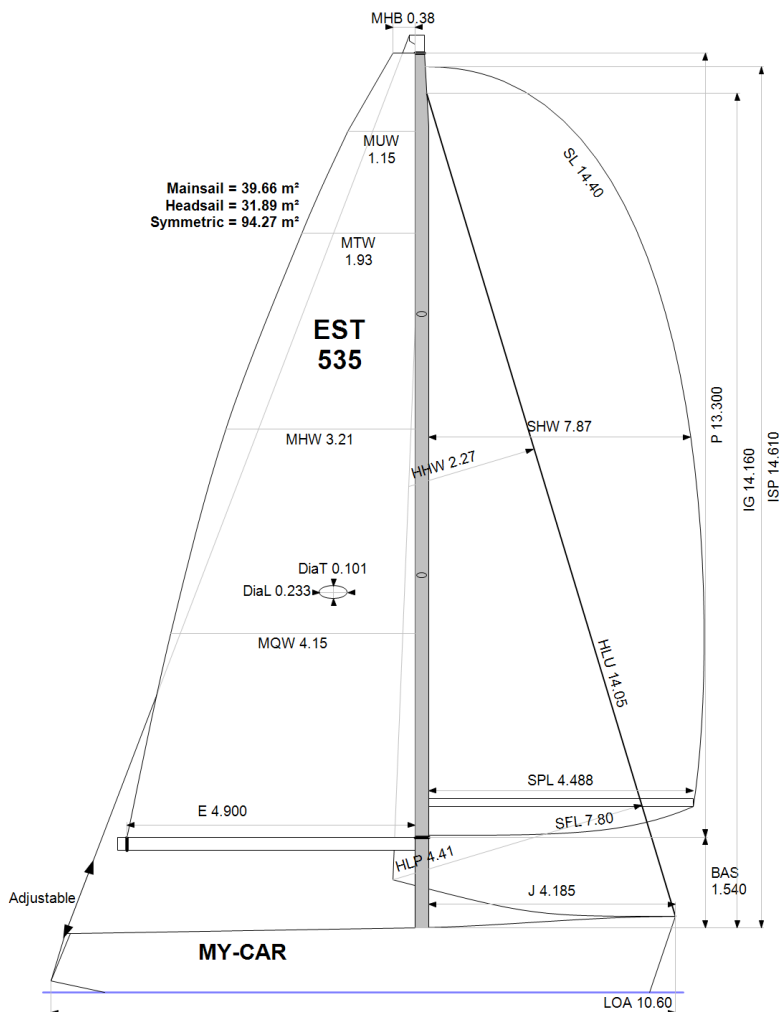
Headsails **5**  
Spinnakers **4**

**STABILITY**

Righting Moment **127.1 kg·m**  
Stability Index **130.5**

**OWNER**

*The owner certifies that he/she understands his/her responsibilities under ORC Rule and Regulations.*



Rated boat velocities in knots

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°	39.0°	38.6°	38.6°
Beat VMG	3.43	4.17	4.75	5.03	5.15	5.20	5.29
52°	5.27	6.28	6.91	7.17	7.26	7.31	7.41
60°	5.59	6.57	7.09	7.35	7.47	7.54	7.63
75°	5.86	6.78	7.23	7.53	7.79	7.95	8.08
90°	5.79	6.78	7.31	7.57	7.90	8.23	8.68
110°	5.76	6.90	7.46	7.91	8.27	8.54	9.03
120°	5.61	6.78	7.38	7.86	8.39	8.89	9.53
135°	5.08	6.28	7.08	7.54	8.02	8.54	9.85
150°	4.29	5.40	6.39	7.09	7.52	7.96	8.96
Run VMG	3.71	4.68	5.54	6.25	6.87	7.34	8.17
Gybe Angles	145.0°	148.5°	151.0°	158.0°	180.0°	180.0°	180.0°

Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1048.7	862.7	757.6	715.4	699.4	692.8	680.8
52°	683.5	573.2	521.4	502.3	495.6	492.3	485.8
60°	643.9	547.9	507.7	489.8	481.8	477.5	471.8
75°	614.2	530.8	497.9	477.8	462.4	453.0	445.4
90°	621.9	530.8	492.7	475.5	455.7	437.4	414.6
110°	625.0	521.6	482.7	455.3	435.1	421.7	398.7
120°	642.2	530.7	487.5	457.9	429.2	405.1	377.6
135°	709.2	573.5	508.7	477.3	448.9	421.5	365.4
150°	839.9	666.8	563.5	507.6	478.5	452.2	402.0
Run VMG	969.8	770.0	650.1	575.8	524.2	490.5	440.5
Selected Courses							
Windward / Leeward	1009.3	816.3	703.8	645.6	611.8	591.7	560.7
All purpose	775.5	638.2	567.5	531.7	508.1	492.7	467.6

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	676.1	0.8874
All purpose	549.9	1.0912

### Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	599.5	1.0008
Triple Number Coastal/Long Distance Low	706.9	0.8488
Triple Number Coastal/Long Distance Medium	546.6	1.0977
Triple Number Coastal/Long Distance High	487.1	1.2317
Triple Number Windward/Leeward Low	912.8	0.6573
Triple Number Windward/Leeward Medium	670.8	0.8945
Triple Number Windward/Leeward High	585.1	1.0255

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	1005.3	766.9	636.8	566.8	528.5	497.6	447.6

Data in meters/kilograms (Metric)

**HULL AND APPENDAGES**

Class	<b>X-35 mod</b>	LOA	<b>10.600</b>	VCGD	<b>-0.172</b>
Measurement	<b>31/07/2019</b>	Max. Beam	<b>3.250</b>	VCGM	<b>-0.191</b>
Measurer		Draft	<b>2.008</b>	RM Measured (kg·m)	<b>127.1</b>
HIN		Displacement	<b>4,753</b>	RM Default (kg·m)	<b>122.1</b>
Plan review		Wetted area	<b>24.88</b>	Limit of positive stability(°)	<b>129.0</b>
Hull construction	<b>Cored</b>	IMS L	<b>9.521</b>	Stability Index	<b>130.5</b>
Carbon Rudder	<b>No</b>	LSM0	<b>9.388</b>		
Light stanchions	<b>No</b>	Acc. length	<b>10.563</b>		
Trim tab	<b>No</b>	Sink (kg/mm)	<b>17.64</b>		

**PROPELLER**

Propeller Type	<b>Folding 2 blades</b>	PRD	<b>0.420</b>	EDL	<b>1.740</b>	ST3	<b>0.182</b>
Installation	<b>Strut</b>	PBW	<b>0.128</b>	ST1	<b>0.042</b>	ST4	<b>0.112</b>
Twin screw	<b>No</b>			ST2	<b>0.178</b>	ST5	<b>0.255</b>
PIPA	<b>0.0033</b>						

**RIG**

Forestay tension	<b>Aft</b>	P	<b>13.300</b>	E	<b>4.900</b>
Inner stay	<b>None Fitted</b>	IG	<b>14.160</b>	J	<b>4.185</b>
Carbon mast	<b>Yes</b>	ISP	<b>14.610</b>	BAS	<b>1.540</b>
Headsail furler	<b>No</b>	MDT1	<b>0.101</b>	FSD	<b>0.034</b>
Mainsail furler	<b>No</b>	MDL1	<b>0.233</b>	SFJ	
Articulated bowsprit	<b>No</b>	MDT2	<b>0.076</b>	SPL	<b>4.488</b>
Non-circular rigging	<b>No</b>	MDL2	<b>0.160</b>	TPS	
Fiber rigging	<b>Yes</b>	TL	<b>1.250</b>	BD	<b>0.220</b>
Runners/Checkstays	<b>0</b>	MW	<b>0.225</b>	MWT	<b>94.00</b>
Spreaders	<b>2</b>	GO	<b>0.242</b>	MCG	<b>5.100</b>

**FLOTATION AND STABILITY**

Inclining Test	<b>Poles Inclining</b>	SFFP	<b>0.075</b>	SAFP	<b>10.275</b>	W1	<b>76.2</b>	PD1	<b>551.3</b>	WD	<b>11.680</b>
Flotation Date	<b>14/06/2021</b>	FFM	<b>1.278</b>	FAM	<b>0.989</b>	W2	<b>76.2</b>	PD2	<b>550.0</b>	PLM	<b>9000.00</b>
Measurer		FF	<b>1.287</b>	FA	<b>0.995</b>	W3	<b>76.2</b>	PD3	<b>553.0</b>	GSA	<b>1.0</b>
Comment	<b>Tallinn - Pirita</b>	LCFcl	<b>5.919</b>	LCFsh	<b>6.116</b>	W4	<b>76.2</b>	PD4	<b>551.5</b>	RSA	<b>1.0</b>
		SG	<b>1.0000</b>	HBI	<b>1.095</b>						

**MEASUREMENT INVENTORY**

Id	Tank	Type	Capacity	LCG	VCG	Condition	Description
1	fuel	st.stl	60.0	6.15		<del>40.0</del>	fuel
2	water	pvc	120.0	5.50		<del>0.0</del>	Water
Id	Item	Description	Weight	LCG	VCG		
1	Ballast	cb	29.1	5.60			
2	Ballast	cb	22.0	5.60			
3	Ballast	cb	8.0	5.60			
<b>Total ballast</b>			<b>59.1</b>				
Id	Item	Description	Weight	LCG	VCG		
1	Battery	90 Ah		4.85			
2	Battery	30 Ah		5.20			
Rem.	Miscellaneous	Removed decorative wall panels					
Rem.	Miscellaneous	owen removed					
1	Miscellaneous	Autohelm		10.00			



**MAINSAIL**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
9a	0.38	1.15	1.93	3.21	4.15	39.66		04/08/2020	OneSails	Unknown	P13,30; E 4,90
7a	0.43	1.10	1.81	3.03	4.01	38.25		09/06/2018	OneSails	Unknown	P13,30; E 4,88

**HEADSAIL**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
10a	0.22	0.69	1.23	2.27	3.31	4.41	14.05	No	No		31.89		09/06/2018	OneSails	Unknown	Code 1
8a	0.10	0.65	1.23	2.32	3.33	4.20	14.10	No	No		31.58		17/05/2016	OneSails	Unknown	JibTop
14a	0.09	0.61	1.18	2.23	3.27	4.38	14.20	No	No		31.55		31/07/2019		Unknown	JIB 2-2019
12	0.14	0.58	1.09	2.15	3.26	4.42	13.36	No	No		29.29		08/06/2017	OneSails	Unknown	Code 3
13	0.10	0.55	0.99	1.82	2.61	3.32	12.42	No	Inner		21.99		25/04/2017	OneSails	Unknown	Stay Sail

**SYMMETRIC SPINNAKER**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Maker	Material	Comment
11a	14.40	14.40	14.40	7.87	7.80	94.27		02/06/2020	One Sail	Unknown	S 2
10a	14.38	14.38	14.38	7.80	8.00	93.95		02/06/2020	One Sail	Unknown	S 1
8	14.05	14.05	14.05	6.54	6.76	77.09		25/04/2017		Unknown	Reacher
3	13.95	13.95	13.95	6.25	6.80	73.94		09/09/2013		Unknown	