

**GPH = 570.4**    **CDL = 10.559**

**BOAT**

Class **X-41 mod**  
Designer **JEPPESEN**  
Builder **X YACHTS**  
Age Date **07/2016**  
Series Date **01/2006**  
Offset File **X41-EST499.off**

**HULL**

Length Overall **12.350 m**  
Maximum Beam **3.646 m**  
Draft **2.315 m**  
Displacement **6,995 kg**  
DLR **5.2678**  
IMS Division **Cruiser/Racer**  
Dynamic Allowance **0.031%**  
Age Allowance **0.487%**

**PROPELLER**

Installation **Strut**  
Type **Folding 2 blades**  
Diameter **0.430m**

**CREW**

Maximum weight **860 kg**  
Minimum weight **645 kg \* when applied**  
Non Manual Power **No**  
Crew Arm Extension

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

	Measured	Rated
Mainsail	<b>52.26</b>	<b>53.41</b>
Headsail Luffed	<b>47.99</b>	<b>47.99</b>
Headsail Flying		
Symmetric		
Asymmetric	<b>161.26</b>	<b>161.26</b>

*\* 1 asymmetric(s) with SHW/SFL < 85%*

**SAIL LIMITATIONS**

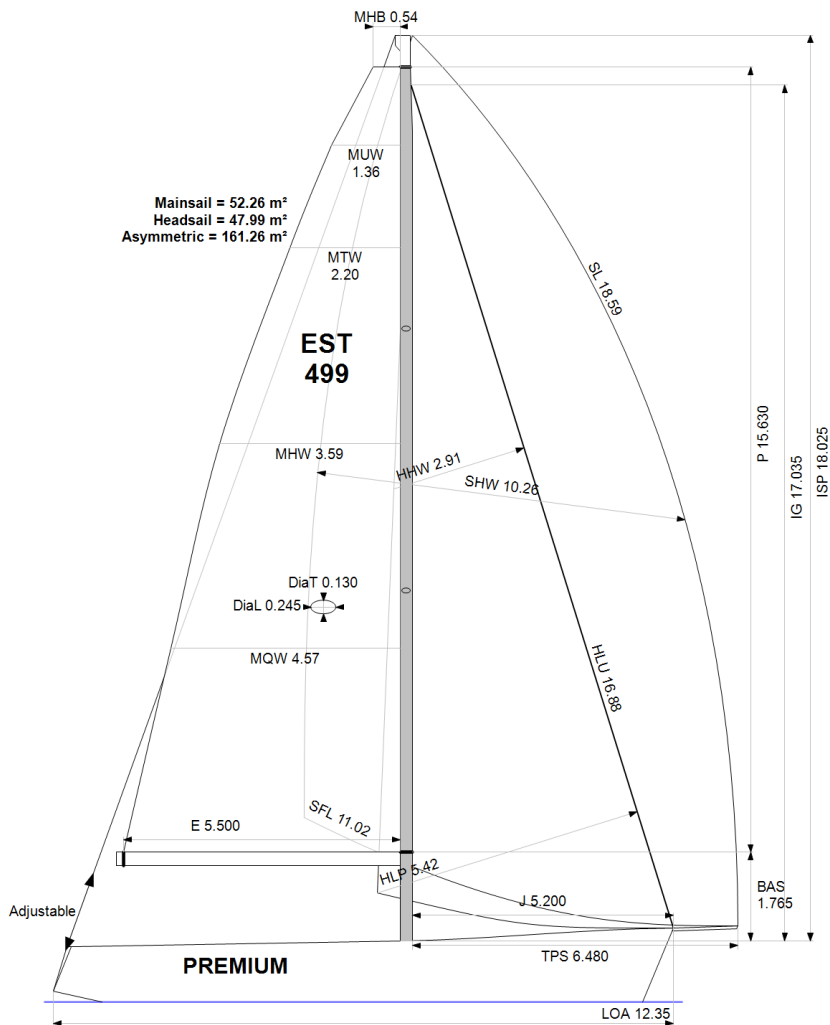
Headsails **6**  
Spinnakers **4**

**STABILITY**

Righting Moment **204.1 kg·m**  
Stability Index **132.7**

**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	43.1°	42.0°	40.5°	39.0°	39.0°	38.6°	38.6°
Beat VMG	3.74	4.56	5.15	5.40	5.51	5.59	5.70
52°	5.73	6.86	7.50	7.72	7.82	7.87	8.01
60°	6.08	7.16	7.70	7.94	8.04	8.10	8.26
75°	6.38	7.38	7.86	8.17	8.41	8.54	8.67
90°	6.32	7.47	7.93	8.23	8.59	8.92	9.32
110°	6.35	7.57	8.15	8.57	8.96	9.31	9.89
120°	6.20	7.47	8.09	8.63	9.18	9.62	10.55
135°	5.51	6.90	7.76	8.27	8.84	9.47	11.11
150°	4.63	5.82	6.92	7.68	8.07	8.46	9.51
Run VMG	4.01	5.04	5.99	6.66	7.01	7.51	8.33
Gybe Angles	143.0°	146.0°	147.8°	151.0°	151.5°	176.0°	177.0°

Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	963.3	789.1	699.5	667.1	653.5	643.5	631.9
52°	628.3	524.7	480.3	466.3	460.6	457.7	449.4
60°	592.0	502.7	467.5	453.5	447.5	444.2	436.0
75°	564.5	488.1	458.1	440.5	428.2	421.5	415.4
90°	569.5	481.9	453.8	437.5	419.2	403.6	386.3
110°	567.0	475.5	441.6	420.0	401.6	386.7	364.0
120°	580.2	482.1	445.1	417.0	392.0	374.3	341.2
135°	653.8	521.5	464.1	435.3	407.4	380.3	323.9
150°	776.8	618.6	520.1	468.6	446.2	425.7	378.4
Run VMG	897.0	714.3	600.6	540.8	513.7	479.1	432.1
Selected Courses							
Windward / Leeward	930.1	751.7	650.0	603.9	583.6	561.3	532.0
All purpose	712.4	585.1	522.3	492.8	475.4	460.3	435.9

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	632.3	0.9489
All purpose	509.3	1.1780

### Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	555.5	1.0801
Triple Number Coastal/Long Distance Low	648.7	0.9249
Triple Number Coastal/Long Distance Medium	506.0	1.1858
Triple Number Coastal/Long Distance High	454.9	1.3189
Triple Number Windward/Leeward Low	840.9	0.7135
Triple Number Windward/Leeward Medium	626.5	0.9577
Triple Number Windward/Leeward High	555.9	1.0794

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	926.8	705.6	587.3	525.9	493.8	464.7	415.8



Data in meters/kilograms (Metric)

**HULL AND APPENDAGES**

Class	<b>X-41 mod</b>	LOA	<b>12.350</b>	VCGD	<b>-0.178</b>
Measurement	<b>09/07/2019</b>	Max. Beam	<b>3.646</b>	VCGM	<b>-0.196</b>
Measurer		Draft	<b>2.315</b>	RM Measured (kg·m)	<b>204.1</b>
HIN		Displacement	<b>6.995</b>	RM Default (kg·m)	<b>203.8</b>
Plan review		Wetted area	<b>32.57</b>	Limit of positive stability(°)	<b>128.9</b>
Hull construction	<b>Cored</b>	IMS L	<b>11.107</b>	Stability Index	<b>132.7</b>
Carbon Rudder	<b>No</b>	LSM0	<b>10.991</b>		
Light stanchions		Acc. length	<b>11.850</b>		
Trim tab	<b>No</b>	Sink (kg/mm)	<b>23.07</b>		

**PROPELLER**

Propeller Type	<b>Folding 2 blades</b>	PRD	<b>0.430</b>	EDL	<b>1.540</b>	ST3	
Installation	<b>Strut</b>	PBW	<b>0.125</b>	ST1	<b>0.060</b>	ST4	<b>0.092</b>
Twin screw	<b>No</b>			ST2		ST5	<b>0.325</b>
PIPA	<b>0.0032</b>						

**RIG**

Forestay tension	<b>Aft</b>	P	<b>15.630</b>	E	<b>5.500</b>
Inner stay	<b>None Fitted</b>	IG	<b>17.035</b>	J	<b>5.200</b>
Carbon mast	<b>Yes</b>	ISP	<b>18.025</b>	BAS	<b>1.765</b>
Headsail furler	<b>No</b>	MDT1	<b>0.130</b>	FSD	<b>0.038</b>
Mainsail furler	<b>No</b>	MDL1	<b>0.245</b>	SFJ	
Articulated bowsprit	<b>No</b>	MDT2	<b>0.094</b>	SPL	
Non-circular rigging	<b>No</b>	MDL2	<b>0.207</b>	TPS	<b>6.480</b>
Fiber rigging	<b>No</b>	TL	<b>1.300</b>	BD	<b>0.270</b>
Runners/Checkstays	<b>0</b>	MW	<b>0.230</b>	MWT	<b>180.30</b>
Spreaders	<b>2</b>	GO	<b>0.265</b>	MCG	<b>5.790</b>

**FLOTATION AND STABILITY**

Inclining Test	<b>Poles Inclining</b>	SFFP	<b>0.200</b>	SAFP	<b>11.995</b>	W1	<b>107.6</b>	PD1	<b>562.8</b>	WD	<b>13.350</b>
Flotation Date	<b>11/05/2019</b>	FFM	<b>1.451</b>	FAM	<b>1.087</b>	W2	<b>107.6</b>	PD2	<b>547.9</b>	PLM	<b>9000.00</b>
Measurer		FF	<b>1.461</b>	FA	<b>1.093</b>	W3	<b>107.6</b>	PD3	<b>552.2</b>	GSA	<b>1.0</b>
Comment	<b>Pirita</b>	LCFcl	<b>6.945</b>	LCFsh	<b>7.153</b>	W4	<b>107.6</b>	PD4	<b>554.5</b>	RSA	<b>1.0</b>
		SG	<b>1.0000</b>	HBI	<b>1.213</b>						

**MEASUREMENT INVENTORY**

Id	Tank	Type	Capacity	LCG	VCG	Condition	Description
1	Fuel	plastic	90.0	5.75		<del>5.0</del>	Fuel tank
2	Water	plastic	180.0	5.20			Water tank
3	Holding tank	plastic	30.0	4.40			Holding tank
Id	Item	Description	Weight	LCG	VCG		
1	Battery	service battery 180 Ah		4.90			
2	Battery	engine battery 30 Ah		7.70			
re	Miscellaneous	Removed sofa backboards in saloon					
re	Miscellaneous	Removed decorative wall panels					
re	Miscellaneous	Removed closet in front cabin					



International  
Certificate  
2021

Boat  
**PREMIUM**  
EST 499

Offshore  
Racing  
Congress

Certificate number: 233/21



#### MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
8b	0.54	1.36	2.20	3.59	4.57	52.26		18/05/2020	OneSails	Unknown	P15,63;E5,50

#### HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
J1	0.12	0.87	1.62	2.91	4.13	5.42	16.88	Yes	No		47.99		24/07/2021	NS	Unknown	North Light
K1	0.12	0.85	1.59	2.86	4.05	5.37	16.95	Yes	No		47.43		24/07/2021	NS	Unknown	North Medium
K	0.11	0.69	1.31	2.58	3.90	5.36	16.36	Yes	No		43.09		20/04/2020	OneSails	Unknown	Heavy
C	0.07					4.28	14.88	No	Inner		32.31		19/06/2015		Unknown	staysail

#### ASYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Ratio	Area	Measurer	Meas.Date	Maker	Material	Comment
B-2	19.72	17.45	18.59	10.26	11.02	93%	161.26		20/05/2020	OneSails	Unknown	A1
D	20.43	15.88	18.16	10.39	10.92	95%	158.80		20/07/2021	One Sails	Unknown	A4
E	20.41	16.27	18.34	10.23	10.78	95%	158.03		20/07/2021	One Sails	Unknown	A2
C	19.96	14.98	17.47	7.80	9.45	83%	118.36		20/07/2021	OneSails	Unknown	A5