

**GPH = 566.2 CDL = 10.734**

**BOAT**

Class **X-41**  
Designer **JEPPESEN**  
Builder **X YACHTS**  
Age Date **05/2007**  
Series Date **01/2006**  
Offset File **X41-EST475.off**

**HULL**

Length Overall **12.350 m**  
Maximum Beam **3.646 m**  
Draft **2.511 m**  
Displacement **7,175 kg**  
DLR **5.2132**  
IMS Division **Cruiser/Racer**  
Dynamic Allowance **0.010%**  
Age Allowance **0.487%**

**PROPELLER**

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

**CREW**

Maximum weight **880 kg**  
Minimum weight **660 kg \* when applied**  
Non Manual Power **No**  
Crew Arm Extension

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

	Measured	Rated
Mainsail	<b>52.22</b>	<b>53.24</b>
Headsail Luffed	<b>45.78</b>	<b>45.78</b>
Headsail Flying		

Symmetric  
Asymmetric **171.93 171.93**  
*\* All asymmetric spinnakers with SHW/SFL > 85%*

**SAIL LIMITATIONS**

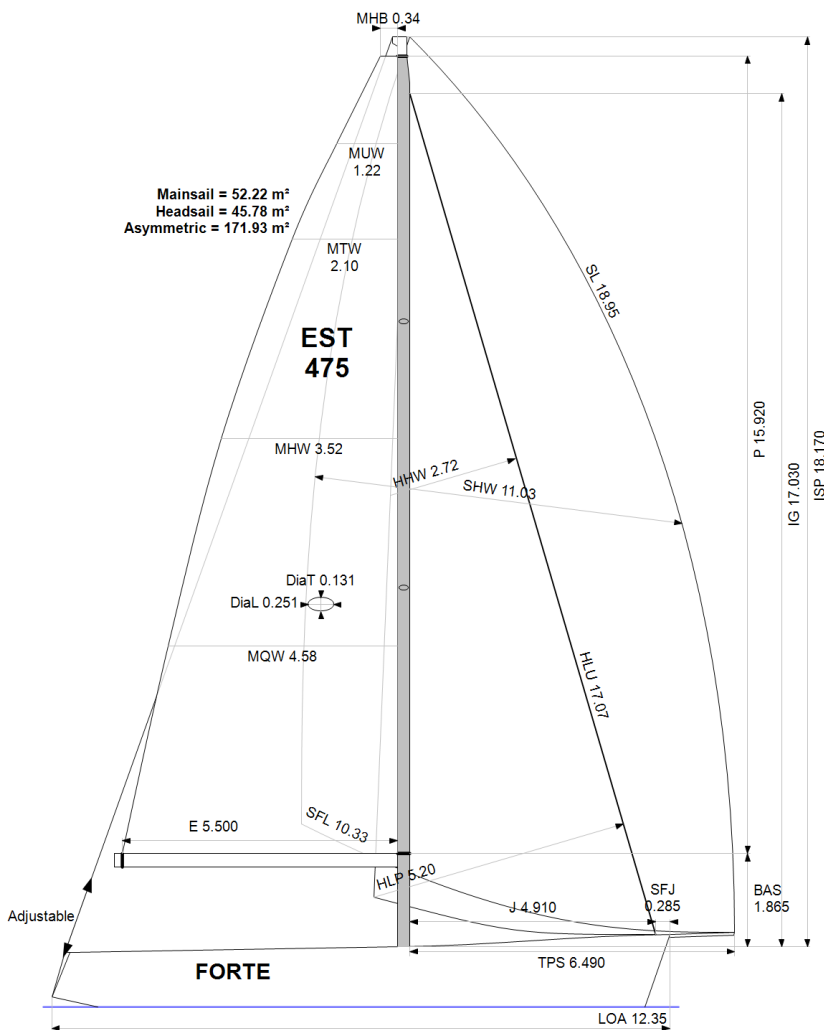
Headsails **6**  
Spinnakers **4 \* Asymmetric SHALL NOT be tacked on the pole**

**STABILITY**

Righting Moment **198.6 kg·m**  
Stability Index **128.2**

**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°	41.3°	39.8°	38.3°	37.9°	37.5°	37.9°
Beat VMG	3.81	4.62	5.21	5.46	5.57	5.63	5.75
52°	5.80	6.90	7.51	7.74	7.83	7.87	8.01
60°	6.13	7.18	7.70	7.94	8.04	8.10	8.23
75°	6.41	7.37	7.84	8.15	8.37	8.50	8.62
90°	6.35	7.47	7.85	8.19	8.53	8.84	9.24
110°	6.45	7.62	8.16	8.51	8.78	9.06	9.62
120°	6.31	7.53	8.12	8.64	9.12	9.47	10.18
135°	5.61	7.02	7.81	8.31	8.87	9.49	11.09
150°	4.73	5.91	7.01	7.74	8.10	8.48	9.54
Run VMG	4.10	5.12	6.07	6.71	7.04	7.54	8.34
Gybe Angles	143.0°	146.0°	148.0°	151.3°	152.0°	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	944.6	778.5	690.7	658.9	646.1	638.9	625.7
52°	620.5	521.7	479.2	465.3	459.9	457.2	449.6
60°	587.3	501.6	467.4	453.4	447.6	444.5	437.6
75°	562.0	488.3	459.0	441.9	429.9	423.3	417.4
90°	567.4	481.7	458.4	439.4	422.2	407.2	389.6
110°	558.3	472.4	440.9	423.1	410.2	397.4	374.2
120°	570.5	478.1	443.4	416.7	394.9	380.2	353.6
135°	641.4	513.2	461.0	433.4	406.0	379.3	324.6
150°	760.5	609.2	513.9	465.0	444.4	424.3	377.5
Run VMG	878.1	703.4	593.4	536.3	511.2	477.2	431.8
Selected Courses							
Windward / Leeward	911.3	741.0	642.1	597.6	578.6	558.0	528.8
All purpose	700.9	579.1	519.0	490.5	474.6	460.8	436.9

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	625.3	0.9595
All purpose	506.7	1.1840

### Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	551.5	1.0879
Triple Number Coastal/Long Distance Low	640.0	0.9375
Triple Number Coastal/Long Distance Medium	503.4	1.1918
Triple Number Coastal/Long Distance High	455.3	1.3179
Triple Number Windward/Leeward Low	826.1	0.7263
Triple Number Windward/Leeward Medium	619.6	0.9683
Triple Number Windward/Leeward High	552.2	1.0865

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	908.0	696.3	581.8	522.3	492.3	465.2	419.2

Data in meters/kilograms (Metric)

**HULL AND APPENDAGES**

Class	<b>X-41</b>	LOA	<b>12.350</b>	VCGD	<b>-0.068</b>
Measurement	<b>17/04/2016</b>	Max. Beam	<b>3.646</b>	VCGM	<b>-0.100</b>
Measurer		Draft	<b>2.511</b>	RM Measured (kg·m)	<b>198.6</b>
HIN		Displacement	<b>7,175</b>	RM Default (kg·m)	<b>206.0</b>
Plan review		Wetted area	<b>31.29</b>	Limit of positive stability(°)	<b>124.0</b>
Hull construction	<b>Cored</b>	IMS L	<b>11.211</b>	Stability Index	<b>128.2</b>
Carbon Rudder	<b>No</b>	LSM0	<b>11.123</b>		
Light stanchions		Acc. length	<b>11.850</b>		
Trim tab	<b>No</b>	Sink (kg/mm)	<b>23.35</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>15.920</b>	E	<b>5.500</b>
Inner stay	<b>None Fitted</b>	IG	<b>17.030</b>	J	<b>4.910</b>
Carbon mast	<b>Yes</b>	ISP	<b>18.170</b>	BAS	<b>1.865</b>
Headsail furler	<b>No</b>	MDT1	<b>0.131</b>	FSD	<b>0.036</b>
Mainsail furler	<b>No</b>	MDL1	<b>0.251</b>	SFJ	<b>0.285</b>
Articulated bowsprit	<b>No</b>	MDT2	<b>0.122</b>	SPL	<b>5.268</b>
Non-circular rigging	<b>No</b>	MDL2	<b>0.190</b>	TPS	<b>6.490</b>
Fiber rigging	<b>No</b>	TL	<b>0.550</b>	BD	<b>0.270</b>
Runners/Checkstays	<b>0</b>	MW	<b>0.251</b>	MWT	<b>204.00</b>
Spreaders	<b>2</b>	GO	<b>0.276</b>	MCG	<b>5.810</b>

**FLOTATION AND STABILITY**

Inclining Test	<b>Poles Inclining</b>	SFFP	<b>0.200</b>	SAFP	<b>11.995</b>	W1	<b>99.6</b>	PD1	<b>552.9</b>	WD	<b>14.000</b>
Flotation Date	<b>25/05/2020</b>	FFM	<b>1.429</b>	FAM	<b>1.079</b>	W2	<b>99.6</b>	PD2	<b>553.9</b>	PLM	<b>9000.00</b>
Measurer		FF	<b>1.439</b>	FA	<b>1.086</b>	W3	<b>99.6</b>	PD3	<b>553.1</b>	GSA	<b>1.0</b>
Comment		LCFcl	<b>6.951</b>	LCFsh	<b>7.159</b>	W4	<b>99.6</b>	PD4	<b>552.2</b>	RSA	<b>1.0</b>
		SG	<b>1.0000</b>	HBI	<b>1.197</b>						

**MEASUREMENT INVENTORY**

Id	Tank	Type	Capacity	LCG	VCG	Condition	Description
1	Fuel	metal	90.0	7.00		<del>15.0</del>	
2	Water	plastic	180.0	6.00		<del>0.0</del>	
3	Waste	metal	15.0	4.00		<del>0.0</del>	
Id	Item	Description	Weight	LCG	VCG		
1	Ballast	Centerline, 37,2+38,3kg	75.5	7.20			
2	Ballast	Starboard, 33,9+34,8+36,1+38,2kg	143.0	6.70			
3	Ballast	Port, 36,1+36,2+35+36 kg	143.3	6.70			
<b>Total ballast</b>			<b>361.8</b>				
Id	Item	Description	Weight	LCG	VCG		
1	Battery	Engine battery	25.0	8.00			
2	Battery	Service batteries	120.0	5.00			
-	Miscellaneous	Removed upper shelvs					



International  
Certificate  
2021

Boat  
**FORTE**  
EST 475

Offshore  
Racing  
Congress

Certificate number: 248/21



#### MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
4a	0.34	1.22	2.10	3.52	4.58	52.22		18/07/2021	North Sails	Unknown	
7	0.21	1.16	2.01	3.46	4.46	50.98				Unknown	P15,80;E5,37

#### HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
11	0.14	0.78	1.44	2.72	3.94	5.20	17.07	Yes	No		45.78		18/07/2021	North Sails	Unknown	2020 Medium
9	0.12	0.76	1.42	2.70	3.97	5.24	17.05	Yes	No		45.76				Unknown	2015 medium
10b	0.12	0.78	1.45	2.71	3.94	5.18	16.90	Yes	No		45.24		18/07/2021	North Sails	Unknown	2019 light

#### ASYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Ratio	Area	Measurer	Meas.Date	Maker	Material	Comment
2a	20.60	17.29	18.95	11.03	10.33	107%	171.93		18/07/2021	North sails	Unknown	A2
3a	20.09	17.51	18.80	10.50	11.01	95%	166.10		18/07/2021	North Sails	Unknown	A1,5