

GPH = **637.6** CDL = **8.741**

BOAT

Class **X-34**
Designer **JEPPESEN**
Builder **X YACHTS**
Age Date **04/2009**
Series Date **11/2007**
Offset File **X34.OFF**

HULL

Length Overall **10.360 m**
Maximum Beam **3.384 m**
Draft **1.904 m**
Displacement **5,338 kg**
DLR **6.5040**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.202%**
Age Allowance **0.455%**

PROPELLER

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

CREW

Maximum weight **700 kg**
Minimum weight **525 kg * when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	37.41	38.19
Headsail Luffed	27.95	27.95
Headsail Flying		
Symmetric	87.17	87.17
Asymmetric		

SAIL LIMITATIONS

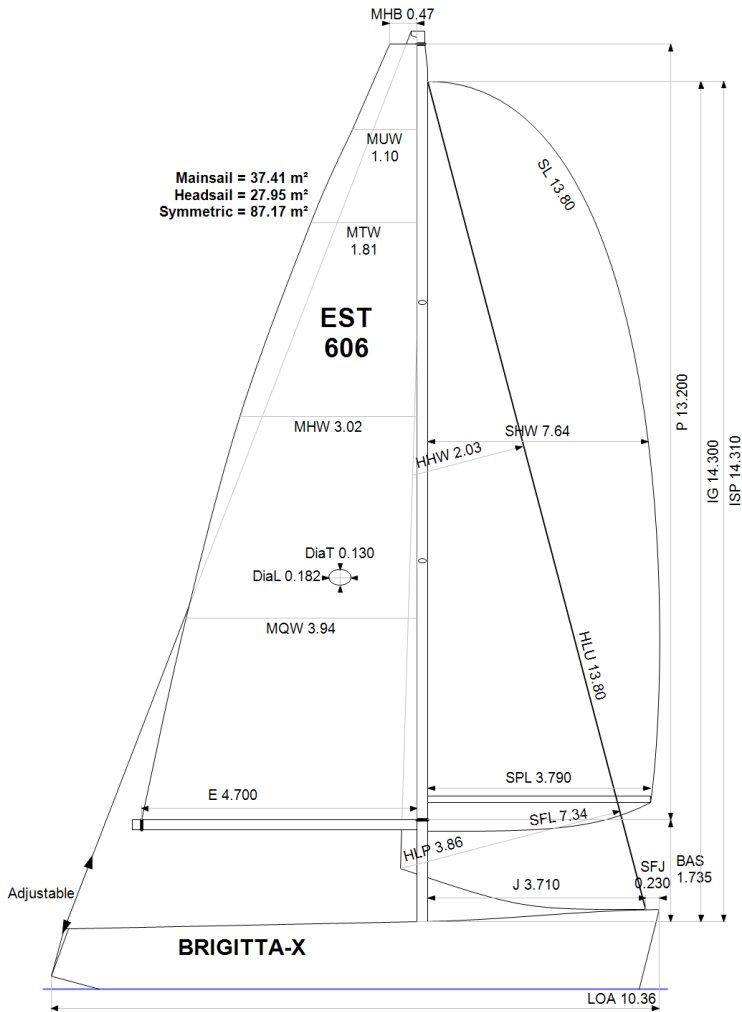
Headsails **5**
Spinnakers **4**

STABILITY

Righting Moment **112.7 kg·m**
Stability Index **120.3**

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°	41.3°	40.1°	39.6°	39.9°	39.8°
Beat VMG	3.29	3.96	4.51	4.85	4.97	5.01	5.08
52°	5.07	6.00	6.66	6.98	7.11	7.16	7.21
60°	5.39	6.32	6.88	7.16	7.31	7.37	7.41
75°	5.63	6.57	7.04	7.32	7.54	7.71	7.85
90°	5.57	6.64	7.18	7.40	7.61	7.87	8.32
110°	5.63	6.75	7.29	7.66	8.03	8.27	8.66
120°	5.47	6.62	7.21	7.61	8.02	8.45	9.07
135°	4.96	6.09	6.91	7.35	7.73	8.15	9.08
150°	4.20	5.27	6.22	6.93	7.34	7.69	8.49
Run VMG	3.64	4.56	5.39	6.11	6.73	7.19	7.89
Gybe Angles	145.0°	150.0°	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	1093.5	908.1	798.8	742.1	724.6	719.0	709.3
52°	709.4	600.0	540.2	515.6	506.5	502.9	499.1
60°	668.1	569.3	523.6	502.9	492.5	488.3	485.8
75°	639.2	547.8	511.4	491.9	477.6	467.1	458.8
90°	646.8	542.5	501.7	486.2	472.9	457.2	432.8
110°	639.5	533.1	494.1	469.7	448.4	435.3	415.7
120°	658.2	543.8	499.1	473.3	448.7	425.8	396.8
135°	726.4	591.6	520.8	489.8	465.7	441.5	396.6
150°	856.4	683.2	578.8	519.2	490.6	468.1	424.0
Run VMG	988.9	788.8	667.6	589.2	534.7	500.5	456.2
Selected Courses							
Windward / Leeward	1041.2	848.5	733.2	665.7	629.6	609.7	582.7
All purpose	800.7	661.1	587.1	547.4	524.1	509.8	487.6

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	699.3	0.8580
All purpose	568.0	1.0564

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	619.8	0.9681
Triple Number Coastal/Long Distance Low	730.9	0.8209
Triple Number Coastal/Long Distance Medium	564.3	1.0633
Triple Number Coastal/Long Distance High	505.1	1.1880
Triple Number Windward/Leeward Low	944.9	0.6350
Triple Number Windward/Leeward Medium	694.4	0.8640
Triple Number Windward/Leeward High	604.6	0.9924

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	1035.9	795.7	661.0	583.9	545.4	515.4	466.2

Data in meters/kilograms (Metric)

HULL AND APPENDAGES

Class	X-34	LOA	10.360	VCGD	0.049
Measurement	26/05/2014	Max. Beam	3.384	VCGM	0.037
Measurer		Draft	1.904	RM Measured (kg·m)	112.7
HIN		Displacement	5.338	RM Default (kg·m)	123.8
Plan review		Wetted area	24.16	Limit of positive stability(°)	118.4
Hull construction	Cored	IMS L	9.394	Stability Index	120.3
Carbon Rudder	No	LSM0	9.363		
Light stanchions		Acc. length	10.360		
Trim tab	No	Sink (kg/mm)	17.92		

PROPELLER

Propeller Type	Folding 2 blades	PRD	0.430	EDL	1.800	ST3	0.180
Installation	Strut	PBW	0.125	ST1	0.060	ST4	0.092
Twin screw	No			ST2	0.180	ST5	0.325
PIPA	0.0032						

RIG

Forestay tension	Aft	P	13.200	E	4.700
Inner stay	None Fitted	IG	14.300	J	3.710
Carbon mast	No	ISP	14.310	BAS	1.735
Headsail furler	No	MDT1	0.130	FSD	0.032
Mainsail furler	No	MDL1	0.182	SFJ	0.230
Articulated bowsprit	No	MDT2	0.124	SPL	3.790
Non-circular rigging	No	MDL2	0.134	TPS	
Fiber rigging	No	TL	0.440	BD	
Runners/Checkstays	0	MW	0.182	MWT	159.50
Spreaders	2	GO	0.200	MCG	4.600

FLOTATION AND STABILITY

Inclining Test	Poles Inclining	SFFP	0.325	SAFP	10.060	W1	67.8	PD1	491.9	WD	10.420
Flotation Date	25/05/2021	FFM	1.332	FAM	1.006	W2	67.8	PD2	491.9	PLM	9000.00
Measurer		FF	1.343	FA	1.013	W3	67.8	PD3	492.2	GSA	1.0
Comment		LCFcl	5.812	LCFsh	6.026	W4	67.8	PD4	498.1	RSA	1.0
		SG	1.0000	HBI	1.144						

MEASUREMENT INVENTORY

Id	Tank Type	Capacity	LCG	VCG	Condition	Description
1	Septic Plastic	40.0	8.20			0-0
2	Fuel Alum	90.0	4.85			15-0 starbord
3	Water Plastic	210.0	4.40			0-0 Portside
Id	Item Description	Weight	LCG	VCG		
1	Battery 180 Ah Starboard		4.00			
2	Battery 70 Ah Battery		7.80			
1	Miscellaneous Boiler Isotherm	4.9				

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
5a	0.47	1.10	1.81	3.02	3.94	37.41		13/04/2021	One Sails	Unknown	P13.20;E4,70
6a	0.37	1.10	1.76	2.85	3.68	35.78		13/04/2021	NS	Unknown	

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
2n	0.12	0.68	1.22	2.03	2.90	3.86	13.80	No	No		27.95		24/04/2013		Unknown	
6	0.12	0.64	1.21	2.02	2.90	3.86	13.80	No	No		27.84		26/05/2014		Unknown	
1n	0.12	0.62	1.12	2.01	2.90	3.90	13.87	No	No		27.80		24/04/2013		Unknown	
5b	0.13	0.63	1.20	2.01	2.92	3.86	13.75	Yes	No		27.74		13/04/2021	One Sails	Unknown	Light
4n2	0.12	0.62	1.12	1.95	2.83	3.88	13.77	No	No		27.15		22/04/2013		Unknown	
3	0.09	0.47	0.90	1.76	2.65	3.60	14.00	No	No		25.02				Unknown	

SYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Maker	Material	Comment
4a	13.80	13.80	13.80	7.64	7.34	87.17		13/04/2021	NS	Unknown	
1	14.00	14.00	14.00	7.13	6.65	82.06				Unknown	
2	14.00	14.00	14.00	7.00	6.62	80.78				Unknown	
3	13.76	13.76	13.76	7.02	6.50	79.30		26/05/2014		Unknown	