

GPH = **589.8** CDL = **10.028**

BOAT

Class **J-11S**
Designer **Johnstone**
Builder **J-Boats**
Age Date **01/2015**
Series Date **01/2011**
Offset File **J11S-EST759.OFF**

HULL

Length Overall **10.918 m**
Maximum Beam **3.302 m**
Draft **2.196 m**
Displacement **4,395 kg**
DLR **4.1966**
IMS Division **Performance**
Dynamic Allowance **0.000%**
Age Allowance **0.325%**

PROPELLER

Installation **Strut**
Type **Folding 2 blades**
Diameter **0.380m**

CREW

Maximum weight **650 kg**
Minimum weight **488 kg * when applied**
Non Manual Power
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	33.39	34.00
Headsail Luffed	33.72	33.72
Headsail Flying		
Symmetric	115.29	115.29
Asymmetric	82.19	82.19

** All asymmetric spinnakers with SHW/SFL > 85%*

SAIL LIMITATIONS

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

STABILITY

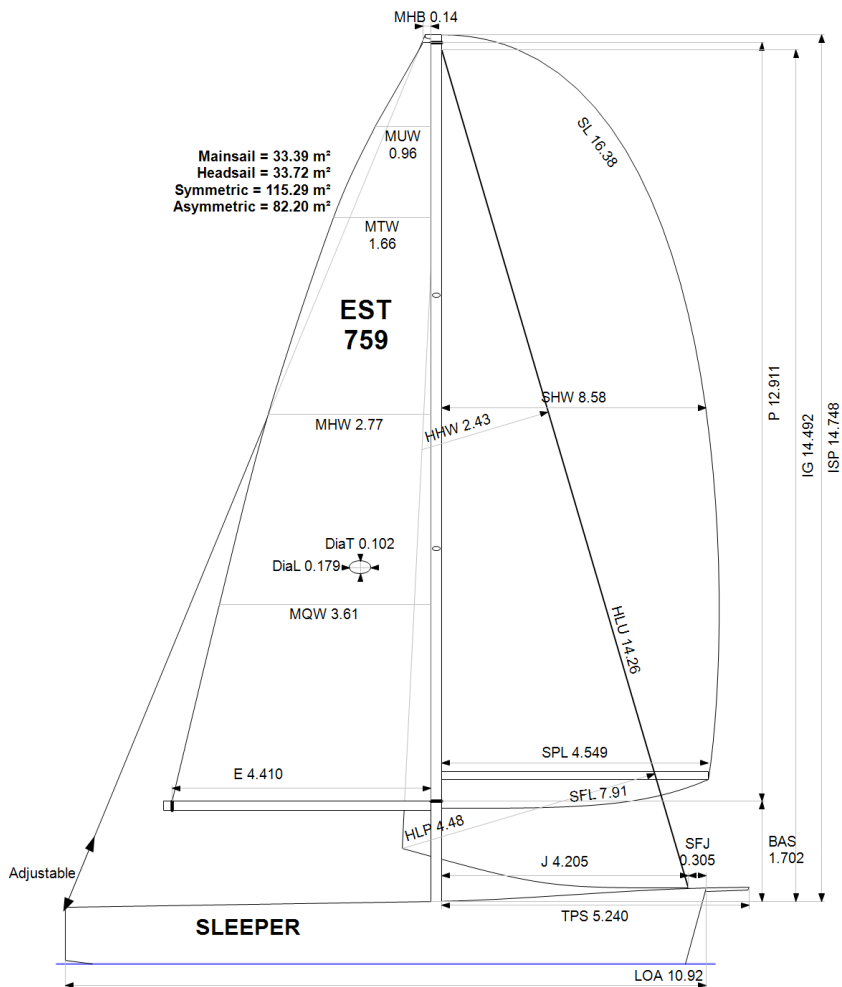
Righting Moment **114.4 kg·m**
Stability Index **124.5**

COMMENTS

Sleeper XI ex. NED 486

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°	37.5°	37.5°	37.3°
Beat VMG	3.59	4.39	5.01	5.30	5.41	5.46	5.58
52°	5.47	6.56	7.21	7.46	7.55	7.60	7.71
60°	5.78	6.83	7.38	7.64	7.77	7.84	7.94
75°	6.03	7.03	7.51	7.83	8.11	8.29	8.44
90°	5.93	7.03	7.60	7.88	8.23	8.60	9.12
110°	5.99	7.22	7.79	8.22	8.74	9.09	9.72
120°	5.87	7.13	7.76	8.32	8.88	9.39	10.40
135°	5.28	6.62	7.47	7.99	8.61	9.32	11.04
150°	4.46	5.56	6.68	7.46	7.94	8.49	9.85
Run VMG	3.86	4.81	5.78	6.56	7.14	7.64	8.62
Gybe Angles	141.2°	147.5°	147.5°	156.1°	172.0°	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	1002.8	820.0	717.9	678.9	664.9	659.6	645.2
52°	657.6	548.9	499.5	482.7	476.6	473.7	467.2
60°	622.5	526.8	487.8	471.2	463.4	459.4	453.7
75°	597.0	512.4	479.5	459.7	444.2	434.3	426.6
90°	607.4	511.9	473.9	456.8	437.4	418.5	394.6
110°	601.1	498.7	461.8	437.9	411.8	396.0	370.4
120°	613.2	504.8	463.9	432.6	405.6	383.4	346.0
135°	681.5	543.5	482.1	450.6	418.1	386.1	326.0
150°	806.9	647.9	539.3	482.4	453.6	424.1	365.6
Run VMG	931.7	748.1	622.7	548.4	504.3	471.3	417.7
Selected Courses							
Windward / Leeward	967.2	784.1	670.3	613.7	584.6	565.4	531.5
All purpose	745.6	611.9	541.6	507.0	485.3	468.1	440.0

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	645.0	0.9303
All purpose	524.8	1.1433

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	572.5	1.0481
Triple Number Coastal/Long Distance Low	678.8	0.8839
Triple Number Coastal/Long Distance Medium	521.9	1.1497
Triple Number Coastal/Long Distance High	461.9	1.2991
Triple Number Windward/Leeward Low	875.7	0.6852
Triple Number Windward/Leeward Medium	639.5	0.9383
Triple Number Windward/Leeward High	557.5	1.0762

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	963.7	736.8	607.2	539.5	504.1	474.0	421.7



Data in meters/kilograms (Metric)

HULL AND APPENDAGES

Class	J-11S	LOA	10.918	VCGD	-0.152
Measurement	12/06/2021	Max. Beam	3.302	VCGM	-0.171
Measurer		Draft	2.196	RM Measured (kg·m)	114.4
HIN		Displacement	4,395	RM Default (kg·m)	104.1
Plan review		Wetted area	23.92	Limit of positive stability(°)	124.3
Hull construction	Cored	IMS L	10.411	Stability Index	124.5
Carbon Rudder	No	LSM0	10.155		
Light stanchions	No	Acc. length	10.732		
Trim tab	No	Sink (kg/mm)	18.50		

PROPELLER

Propeller Type	Folding 2 blades	PRD	0.380	EDL	2.248	ST3	0.180
Installation	Strut	PBW	0.097	ST1	0.065	ST4	0.110
Twin screw				ST2	0.180	ST5	0.207
PIPA	0.0035						

RIG

Forestay tension	Aft	P	12.911	E	4.410
Inner stay	None Fitted	IG	14.492	J	4.205
Carbon mast	No	ISP	14.748	BAS	1.702
Headsail furler	No	MDT1	0.102	FSD	0.033
Mainsail furler	No	MDL1	0.179	SFJ	0.305
Articulated bowsprit	No	MDT2	0.102	SPL	4.549
Non-circular rigging	No	MDL2	0.179	TPS	5.240
Fiber rigging	No	TL	0.000	BD	0.159
Runners/Checkstays	0	MW	0.179	MWT	
Spreaders	2	GO	0.179	MCG	

FLOTATION AND STABILITY

Inclining Test	Boom Inclining	SFFP	0.920	SAFP	10.918	W1	100.0	PD1	283.9	WD	4.095
Flotation Date	12/06/2021	FFM	1.257	FAM	0.860	W2	100.0	PD2	283.9	PLM	9000.00
Measurer		FF	1.261	FA	0.871	W3	100.0	PD3	276.9	GSA	1.0
Comment	SEMINAR IN TALLIN	LCFcl	6.139	LCFsh	6.350	W4	100.0	PD4	283.1	RSA	1.0
		SG	1.0000	HBI	1.067	LCFD	6.318				

MEASUREMENT INVENTORY

Id	Tank	Type	Capacity	LCG	VCG	Condition	Description
A	Water	Soft	100.0	5.13			PORT
B	FUEL	RIGID	49.0	9.28		30.0	
Id	Item	Description	Weight	LCG	VCG		
A	Battery	90 Ah		5.39			
B	Battery	45 Ah		5.66			
A	Miscellaneous	COOCKING STOVE		6.77			



MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
2	0.14	0.96	1.66	2.77	3.61	33.39		10/05/2021	X-Violes	Unknown	
1	0.14	0.96	1.68	2.77	3.58	33.34		10/05/2021	X-Violes	Unknown	

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
4	0.10	0.74	1.33	2.43	3.45	4.48	14.26	No	No		33.72		10/05/2021	One Sails	Unknown	J2
2	0.07	0.68	1.27	2.36	3.42	4.42	14.40	No	No		33.31		14/05/2018	One sails	Unknown	J1
3	0.07	0.67	1.26	2.38	3.41	4.41	14.40	No	No		33.28		14/05/2018	One Sails	Unknown	J2

SYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Maker	Material	Comment
4	16.38	16.38	16.38	8.58	7.91	115.29		10/05/2016	One Sails	Unknown	S1,5
3	15.80	15.80	15.80	8.23	8.37	108.73		20/02/2020	One Sails	Unknown	
5	15.10	15.10	15.10	7.69	6.88	94.73		10/07/2015	One Sails	Unknown	
1	14.16	14.16	14.16	8.05	7.76	94.31		12/11/2015	X-Violes	Unknown	
2	13.88	13.88	13.88	6.75	7.38	79.53		10/05/2021	X-Violes	Unknown	

ASYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Ratio	Area	Measurer	Meas.Date	Maker	Material	Comment
1	14.91	12.92	13.92	7.02	7.36	95%	82.19		10/05/2021	X-Violes	Unknown	