



APH: **561.5** CDL: **8.230**  
GPH: **623.4** CertNo: **US4619**

#### BOAT

Class **J 92**  
Designer **JOHNSTONE**  
Builder **TPI**  
Age date **01/1994**  
Series date **01/1994**  
Offset file **H194.OFF**  
Data file **USA 46192**

#### HULL

Length Overall **9.141 m**  
Maximum Beam **3.042 m**  
Draft **1.806 m**  
Displacement **2,490 kg**  
DLR **5.1527**  
IMS Division **Performance**  
Dynamic Allowance **0.000%**  
Age Allowance **0.487%**

#### PROPELLER

Installation **Shaft exposed**  
Type **Folding 2 blades**  
Diameter **0.305m**

#### CREW

Maximum weight **454 kg**  
Minimum weight **341 kg** \* when applied  
Non Manual Power **No**  
Crew Arm Extension **0.00 m**

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

	Measured	Rated
Mainsail	<b>28.12</b>	<b>28.67</b>
Headsail Luffed	<b>29.24</b>	<b>29.24</b>
Headsail Flying		
Symmetric		
Asymmetric	<b>103.83</b>	<b>103.83</b>

(All asymmetric spinnakers with SHW/SFL > 85%)

#### STORM SAIL AREAS (m<sup>2</sup>)

Trysail **8.35**  
Storm Jib **6.43**  
Heavy Weather Jib **17.36**

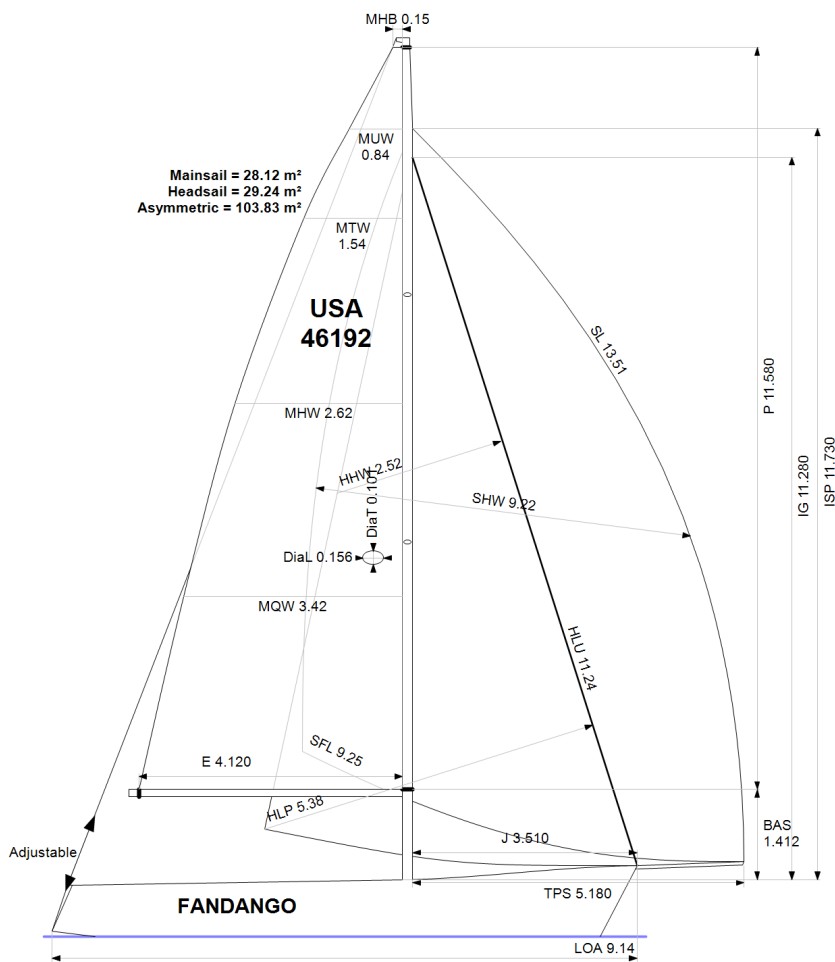
#### SAIL LIMITS

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

#### STABILITY

Righting Moment **N/A**  
Stability Index **N/A**

*The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 304.*



Rated boat velocities in knots

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	42.1°	39.9°	37.5°	36.6°	36.4°	36.0°	36.6°
Beat VMG	3.65	4.39	4.77	4.92	5.00	5.05	5.06
52°	5.49	6.31	6.65	6.78	6.86	6.92	6.97
60°	5.73	6.47	6.79	6.95	7.04	7.11	7.19
75°	5.88	6.57	6.93	7.18	7.33	7.44	7.58
90°	5.75	6.55	6.94	7.27	7.53	7.74	8.02
110°	5.89	6.77	7.22	7.52	7.79	8.05	8.58
120°	5.77	6.73	7.27	7.73	8.14	8.52	9.40
135°	5.18	6.34	7.04	7.61	8.19	8.92	11.27
150°	4.41	5.52	6.39	6.99	7.40	7.88	10.09
Run VMG	3.82	4.78	5.53	6.05	6.41	6.82	8.74
Gybe Angles	144.2°	148.3°	149.2°	150.1°	148.0°	145.3°	141.4°



Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	986.8	820.9	754.9	731.8	720.1	712.9	711.5
52°	655.9	570.4	541.6	530.9	524.7	520.5	516.7
60°	627.9	556.6	529.8	518.1	511.0	506.2	500.7
75°	612.5	548.3	519.4	501.7	491.4	484.0	475.1
90°	625.9	549.3	518.6	495.2	477.8	464.9	448.9
110°	611.0	531.8	498.7	478.6	462.2	447.3	419.6
120°	624.0	535.1	495.1	465.9	442.5	422.6	382.8
135°	695.2	567.5	511.6	473.2	439.4	403.7	319.4
150°	817.1	651.8	563.3	515.3	486.3	457.1	356.8
Run VMG	943.5	752.7	650.5	595.0	561.5	527.8	412.0
Selected Courses							
Windward / Leeward	965.1	786.8	702.7	663.4	640.8	620.3	561.7
All purpose	750.3	629.9	576.4	548.6	530.1	513.8	475.8

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	684.8	0.8762
All purpose	561.5	1.0685

### Custom scoring options for United States of America

Scoring Option	Time On Distance	Time On Time
<b>Triple Number All Purpose Low</b>	690.1	0.8695
<b>Triple Number All Purpose Medium</b>	560.0	1.0714
<b>Triple Number All Purpose High</b>	503.7	1.1913
<b>Triple Number Windward/Leeward Low</b>	875.9	0.6850
<b>Triple Number Windward/Leeward Medium</b>	681.1	0.8809
<b>Triple Number Windward/Leeward High</b>	603.4	0.9943
<b>Predominantly Upwind</b>	607.5	0.9877
<b>Predominantly Downwind</b>	562.4	1.0669
<b>Predominantly Upwind Low</b>	764.7	0.7846
<b>Predominantly Upwind Medium</b>	630.7	0.9513
<b>Predominantly Upwind High</b>	600.5	0.9992
<b>Predominantly Downwind Low</b>	748.4	0.8017
<b>Predominantly Downwind Medium</b>	560.4	1.0708
<b>Predominantly Downwind High</b>	460.1	1.3040
<b>Chicago-Mac Upwind</b>		0.9726
<b>Chicago-Mac All Purpose</b>		1.0080
<b>Chicago-Mac Downwind</b>		1.0510
<b>Bayview-Mac Cove Island</b>		0.9470
<b>Bayview-Mac Shore</b>		0.9525
<b>Harvest Moon Regatta</b>	489.2	1.2264

Scoring Option	Time On Distance	Time On Time
<b>San Francisco Bay Heavy</b>	586.4	1.0232
<b>San Francisco Bay Medium</b>	666.8	0.8998
<b>Predominantly Reaching</b>	533.6	1.1244
<b>Predominantly Reaching Low</b>	631.8	0.9497
<b>Predominantly Reaching Medium</b>	529.6	1.1329
<b>Predominantly Reaching High</b>	464.2	1.2925
<b>Windward/Leeward 60-40 Low</b>	881.5	0.6806
<b>Windward/Leeward 60-40 Medium</b>	702.5	0.8541
<b>Windward/Leeward 60-40 High</b>	641.1	0.9359

5-Band Windward/Leeward	Time On Distance	Time On Time
<b>5-Band Low</b>	951.4	0.6306
<b>5-Band Low / Medium</b>	809.1	0.7416
<b>5-Band Medium</b>	672.8	0.8918
<b>5-Band Medium / High</b>	617.4	0.9718
<b>5-Band High</b>	571.8	1.0492



Data in meters/kilograms (Metric)

**HULL AND APPENDAGES (Lightship Trim)**

Class	<b>J 92</b>	LOA	<b>9.141</b>	VCGD	<b>-0.049</b>
Measurement		Max. Beam	<b>3.042</b>	VCGM	<b>-0.035</b>
HIN	<b>66</b>	Draft	<b>1.806</b>	RM Rated (kg·m)	<b>55.6</b>
Plan review		Displacement	<b>2,490</b>	Limit of positive stability(°)	<b>N/A</b>
Hull construction	<b>Cored</b>	Wetted area	<b>16.53</b>	Stability Index	<b>N/A</b>
Carbon Rudder	<b>No</b>	IMS L	<b>8.133</b>		
Light stanchions	<b>No</b>	LSM0	<b>7.847</b>		
Trim tab	<b>No</b>	Acc. length	<b>9.141</b>		
		Sink (kg/mm)	<b>12.70</b>		

**PROPELLER**

Propeller Type	<b>Folding 2 blades</b>										
Installation	<b>Shaft exposed</b>	PRD	<b>0.305</b>	PSD	<b>0.019</b>	PSA	<b>22.0°</b>	ST1	<b>0.022</b>	ST4	<b>0.046</b>
Twin screw	<b>No</b>	PBW	<b>0.086</b>	PHD	<b>0.052</b>	ESL	<b>0.647</b>	ST2	<b>0.074</b>	ST5	<b>0.202</b>
Hydro generator	<b>No</b>	PIPA	<b>0.0032</b>	PHL	<b>0.125</b>			ST3	<b>0.080</b>		

**RIG**

Forestay tension	<b>Aft</b>	P	<b>11.580</b>	E	<b>4.120</b>
Inner stay	<b>None Fitted</b>	IG	<b>11.280</b>	J	<b>3.510</b>
Carbon mast	<b>No</b>	ISP	<b>11.730</b>	BAS	<b>1.412</b>
Headsail furler	<b>No</b>	MDT1	<b>0.101</b>	FSD	<b>0.028</b>
Mainsail furler	<b>No</b>	MDL1	<b>0.156</b>	SFJ	<b>0.000</b>
Articulated bowsprit	<b>No</b>	MDT2	<b>0.083</b>	SPL	<b>0.000</b>
Non-circular rigging	<b>No</b>	MDL2	<b>0.107</b>	WPL	
Fiber rigging	<b>No</b>	TL	<b>1.201</b>	TPS	<b>5.180</b>
Runners/Checkstays	<b>0</b>	MW	<b>0.156</b>	BD	<b>0.113</b>
Spreaders	<b>2</b>	GO	<b>0.174</b>	MWT	<b>0.00</b>
Rotating mast	<b>No</b>			MCG	<b>0.000</b>

**FLOTATION AND STABILITY**

Calculation method	<b>RM estimated</b>	SFFP	<b>0.440</b>	SAFP	<b>8.827</b>
Flotation Date	<b>01/01/2018</b>	FFM		FAM	
Measurer		FF	<b>1.094</b>	FA	<b>0.703</b>
Comment		LCFcl	<b>4.989</b>	LCFsh	<b>5.219</b>
		SG		HBI	<b>0.887</b>



Club  
Certificate  
2023

Boat  
**FANDANGO**  
USA 46192

US SAILING  
1 ROGER WILLIAMS UNI WAY  
BRISTOL, RI 02809  
USA




---

**MAINSAIL**

<i><b>Id</b></i>	<i><b>MHB</b></i>	<i><b>MUW</b></i>	<i><b>MTW</b></i>	<i><b>MHW</b></i>	<i><b>MQW</b></i>	<i><b>Area</b></i>	<i><b>Meas.Date</b></i>	<i><b>Comment</b></i>
Main	0.15	0.84	1.54	2.62	3.42	28.12	04/10/2023	128831

---

**HEADSAIL**

<i><b>Id</b></i>	<i><b>HHB</b></i>	<i><b>HUW</b></i>	<i><b>HTW</b></i>	<i><b>HHW</b></i>	<i><b>HQW</b></i>	<i><b>HLP</b></i>	<i><b>HLU</b></i>	<i><b>Btn</b></i>	<i><b>Flying FT</b></i>	<i><b>Area</b></i>	<i><b>Meas.Date</b></i>	<i><b>Comment</b></i>
L/M Genoa	0.07	0.64	1.24	2.52	3.89	5.38	11.24	No	No	29.24	04/10/2023	119544
Sty. Sail	0.02	0.42	0.84	1.69	2.53	3.37	10.87	No	Inner	18.34		Sail Build Specs

---

**ASYMMETRIC SPINNAKER**

<i><b>Id</b></i>	<i><b>SLU</b></i>	<i><b>SLE</b></i>	<i><b>SL</b></i>	<i><b>SHW</b></i>	<i><b>SFL</b></i>	<i><b>Ratio</b></i>	<i><b>Area</b></i>	<i><b>Meas.Date</b></i>	<i><b>Comment</b></i>
A2	14.40	12.61	13.51	9.22	9.25	100%	103.83	04/10/2023	02-A-00687