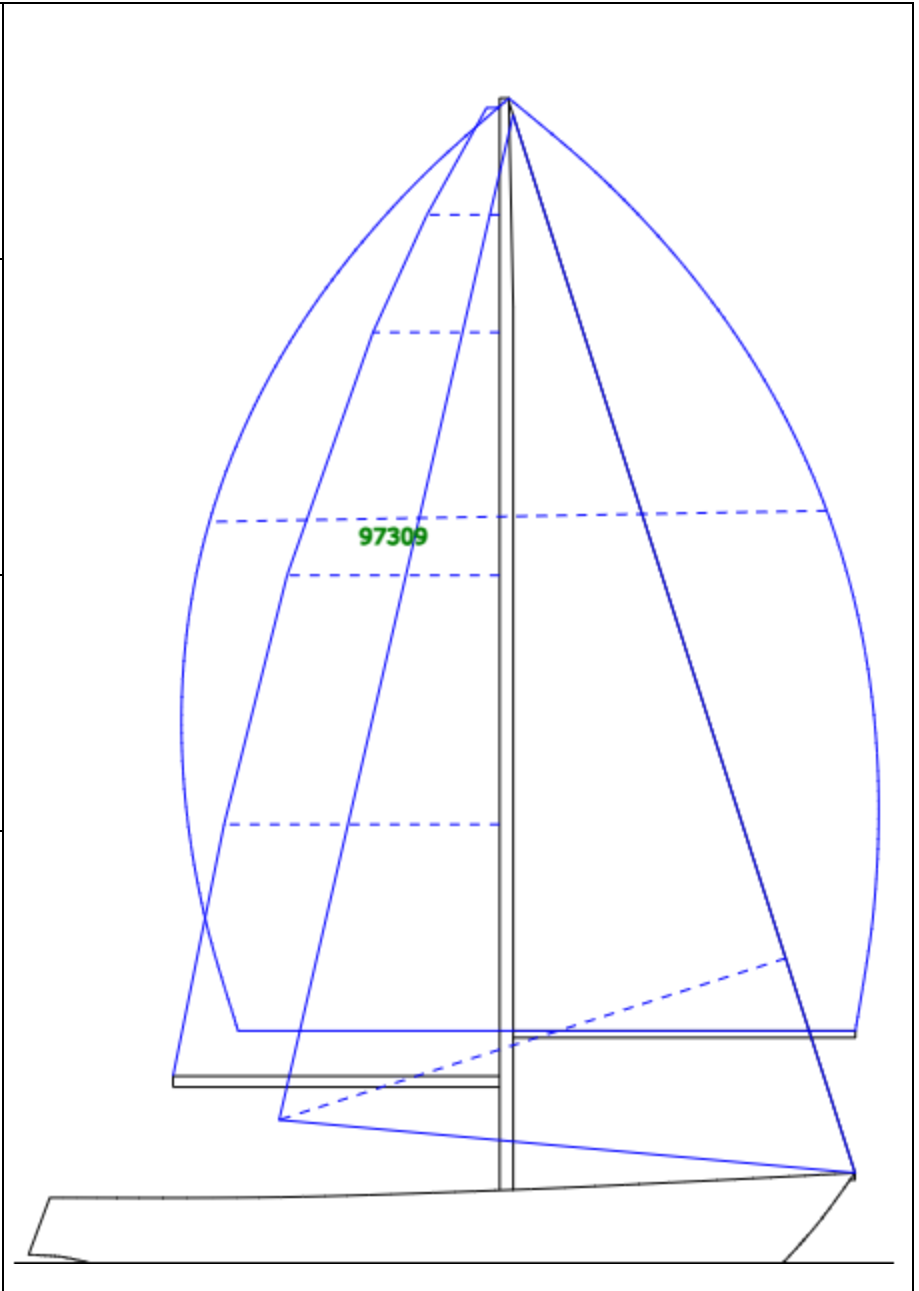


Class: J/35  
 Configuration: One Design  
 Sail Number: 97309  
 Year Built: 1988  
 Builder: TILLOTSON-PEARSON  
 Owner(s): David, Gerral

Certificate #: EZ10507-OD-2  
 Valid Year: 2023  
 Type: OD Cert  
 Issue Date: 2023-10-11  
 Exp.Date: 2023-12-31  
 Offsets\_file: US17521.OFF  
 Cert Group: ORR-Ez  
 Comment:

Rig Type: Sloop  
 Forestay: Masthead  
 Keel Type: Fin  
 Prop Type: Folding  
 Prop Install: Exposed  
 Prop Blades: 2

LOA: 35.40 ft  
 LWL: 30.00 ft  
 Rated Length: 30.80 ft  
 Beam Max: 11.98 ft  
 Draft: 6.94 ft  
 Disp Empty: 10170 lbs  
 Disp Sailing: 11788 lbs  
 Crew: 1400 lbs  
 Water Ballast: lbs  
 Wetted Area: 268.8 ft<sup>2</sup>  
 LPS: 114.9 °  
 RM20: 830.6 ft·lbs  
 Stab Index: 111 °



Spinnaker: Symmetrical flown with spinnaker pole  
 Code Zero: No  
 Genoa/Jib Leech: No Roach - Leech is straight  
 Large Roach Headsail: No  
 Jib Furler: No  
 Main Roller Furling: No

**Rig Dimensions**  
 IG: 46.62 ft  
 ISP: 46.78 ft  
 J: 14.65 ft  
 P: 41.50 ft  
 E: 14.00 ft  
 SPL: 14.67 ft

**Mainsail Meas.**  
 HB: 0.56 ft  
 MGT: 3.12 ft  
 MGU: 5.43 ft  
 MGM: 9.11 ft  
 MGL: 11.81 ft  
 Area: 356.6 ft<sup>2</sup>

**Jib/Genoa Meas.**  
 LP: 22.79 ft  
 LPG %: 155.5 %  
 J Luff: 47.65 ft  
 J Leech: 44.29 ft  
 Area: 542.8 ft<sup>2</sup>

**Symmetric Spin. Meas.**  
 SL: 46.37 ft  
 SMW: 26.46 ft  
 SF: 26.46 ft  
 Area: 1022.6 ft<sup>2</sup>

### Z Force J/35 97309

#### Table of Time Allowances (sec/mile)\* (at True Wind Angles)

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	45.9	44.9	43.7	40.3	37.9	35.3	34.3	34.4
Beat VMG	1,416.9	1,025.9	841.9	753.6	708.7	666.5	650.2	646.6
52°	893.97	660.11	554.79	520.22	503.13	486.05	478.71	475.45
60°	807.16	612.08	532.23	502.74	487.90	472.12	464.82	461.25
75°	739.54	573.19	513.38	483.80	468.90	451.01	439.10	431.77
90°	743.77	568.83	500.24	470.18	452.92	430.00	415.54	406.56
110°	739.51	567.96	502.34	469.04	444.53	411.63	390.91	375.36
120°	776.35	591.82	518.22	484.31	458.58	414.54	378.45	357.53
135°	1,043.2	729.3	578.12	523.16	490.11	441.40	398.19	349.00
150°	1,277.7	893.2	704.1	590.1	529.56	468.21	424.66	382.74
165°	1,425.1	996.2	785.3	658.2	574.7	492.28	445.41	405.91
Run VMG	1,475.3	1,031.4	813.0	681.4	595.0	506.5	456.8	417.0
Opt Run Angle	131.8	134.4	137.7	149.7	162.4	172.1	173.1	172.3

\* Sec/mile rating assume gybing downwind when target angles are deeper than best VMG angles.

#### Performance Metrics

SA/D Dnwind:	42.610
SA/D Average:	35.20
SA/D Upwind:	27.790
D/Length:	180.1
Ave Perf Screen:	19.500
DnWind Perf	23.7
Screen:	

#### Standard Ratings

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.408	0.646	0.862	1.011	1,174.2	742.0	556.5	474.4
W50/L50	0.398	0.641	0.878	1.045	1,475.7	916.2	669.0	561.8
W60/L40	0.408	0.652	0.881	1.031	1,470.3	919.0	680.1	581.4
MOSTLY WW	0.446	0.693	0.891	0.989	1,354.6	871.1	677.7	610.3
MOSTLY LW	0.399	0.627	0.848	1.057	1,186.3	754.5	558.0	447.9

#### Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.856	617.3
IR#	0.870	615.2

#### ORR-Ez PHRF

TOD (Spin)
78.9

ORR-Ez PHRF are based on the Farr 40 MH as Scratch Boat.

#### Standard PCS Ratings

	TOD (Spin)							
	4	6	8	10	12	16	20	24
RANDOM LEG	1,175.1	843.1	684.3	599.9	551.0	500.1	473.0	454.3
W50/L50	1,475.1	1,048.1	841.0	728.0	660.8	592.8	558.9	537.0
W60/L40	1,470.1	1,048.1	844.6	735.6	672.2	609.0	578.5	560.2
MOSTLY WW	1,354.1	980.8	804.9	718.1	671.8	626.9	607.4	599.6
MOSTLY LW	1,186.1	855.0	698.0	609.8	551.8	485.7	444.8	416.2

#### ORR-Ez PHRF Time Allowance 4 Winds

	TOD (Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	183.8	108.7	74.6	70.8
W50/L50	268.8	147.8	82.3	75.4
W60/L40	254.2	144.4	84.0	75.9
MOSTLY WW	187.5	120.4	78.0	68.9
MOSTLY LW	241.8	134.6	80.2	73.8

### Z Force J/35 97309

#### Table of Time Allowances (sec/mile)\* (at True Wind Angles)

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	45.9	44.9	43.7	40.3	37.9	35.3	34.3	34.4
Beat VMG	1,416.9	1,025.9	841.9	753.6	708.7	666.5	650.2	646.6
52°	893.97	660.11	554.79	520.22	503.13	486.05	478.71	475.45
60°	807.16	612.08	532.23	502.74	487.90	472.12	464.82	461.25
75°	739.54	573.19	513.38	483.80	468.90	452.16	443.51	438.48
90°	732.36	568.83	510.96	480.26	458.90	437.15	426.15	418.90
110°	812.77	618.15	539.61	505.54	480.67	442.20	411.63	399.89
120°	940.86	691.74	578.26	530.59	501.09	458.04	423.12	394.81
135°	1,303.64	901.40	702.15	597.53	540.21	480.99	440.24	404.65
150°	1,610.59	1,077.10	810.35	669.41	579.33	497.71	451.87	414.18
165°	1,694.60	1,138.38	860.38	701.30	601.49	503.23	452.42	411.76
Run VMG	1,715.3	1,151.7	869.9	708.5	607.4	508.1	457.3	417.0
Opt Run Angle	172.0	172.1	172.2	172.2	172.1	173.1	173.1	172.3

\* Sec/mile rating assume gybing downwind when target angles are deeper than best VMG angles.

#### Performance Metrics

SA/D:	27.79
D/Length:	180.1
Perf Screen:	15.4

#### Standard Ratings

	TOT (Non-Spin)				TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.382	0.613	0.832	0.982	1,254.3	782.1	576.4	488.0
W50/L50	0.373	0.618	0.870	1.045	1,572.7	950.5	674.9	561.9
W60/L40	0.387	0.633	0.875	1.031	1,547.4	946.5	684.8	581.5
MOSTLY WW	0.440	0.687	0.888	0.987	1,373.1	878.6	679.5	611.3
MOSTLY LW	0.349	0.578	0.816	1.018	1,355.0	819.0	580.4	464.8

#### Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.819	645.5
IR#	0.855	625.9

#### ORR-Ez PHRF

TOD (Non-Spin)
89.6

ORR-Ez PHRF are based on the Farr 40 MH as Scratch Boat.

#### Standard PCS Ratings

	TOD (Non-Spin)							
	4	6	8	10	12	16	20	24
RANDOM LEG	1,260.1	896.7	720.8	626.4	571.0	514.2	486.2	469.4
W50/L50	1,585.1	1,106.1	870.1	742.1	667.4	593.8	559.2	537.0
W60/L40	1,557.1	1,094.1	867.9	746.9	677.5	609.7	578.7	560.2
MOSTLY WW	1,375.1	992.8	811.6	721.8	673.6	627.7	608.5	600.9
MOSTLY LW	1,370.1	955.1	750.4	641.9	575.0	503.9	462.9	431.1

#### ORR-Ez PHRF Allowance 4 Winds

	TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	263.9	148.8	94.5	84.4
W50/L50	365.8	182.1	88.2	75.5
W60/L40	331.3	171.9	88.7	76.0
MOSTLY WW	206.0	127.9	79.8	69.9
MOSTLY LW	410.5	199.1	102.6	90.7