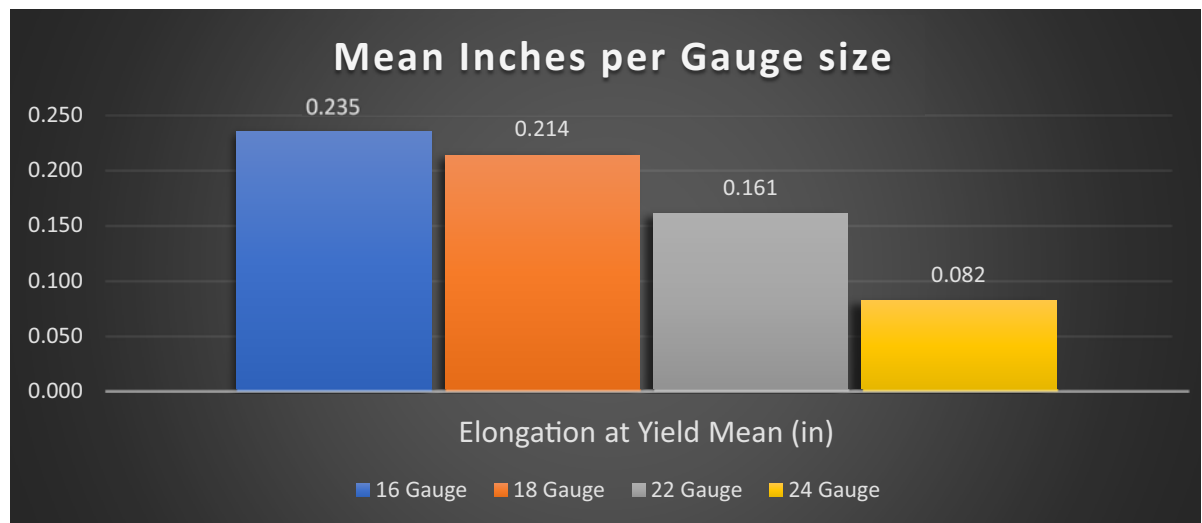
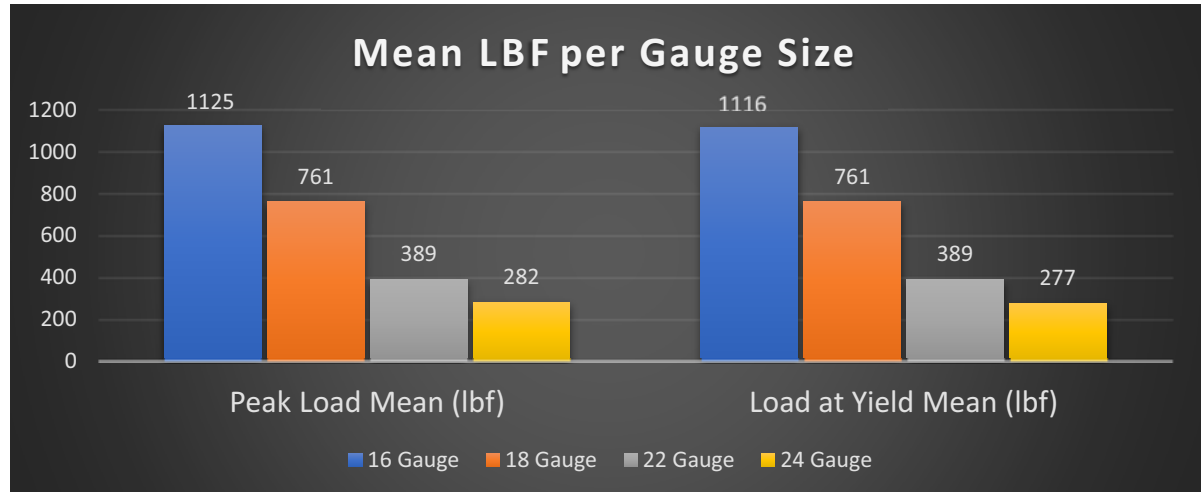


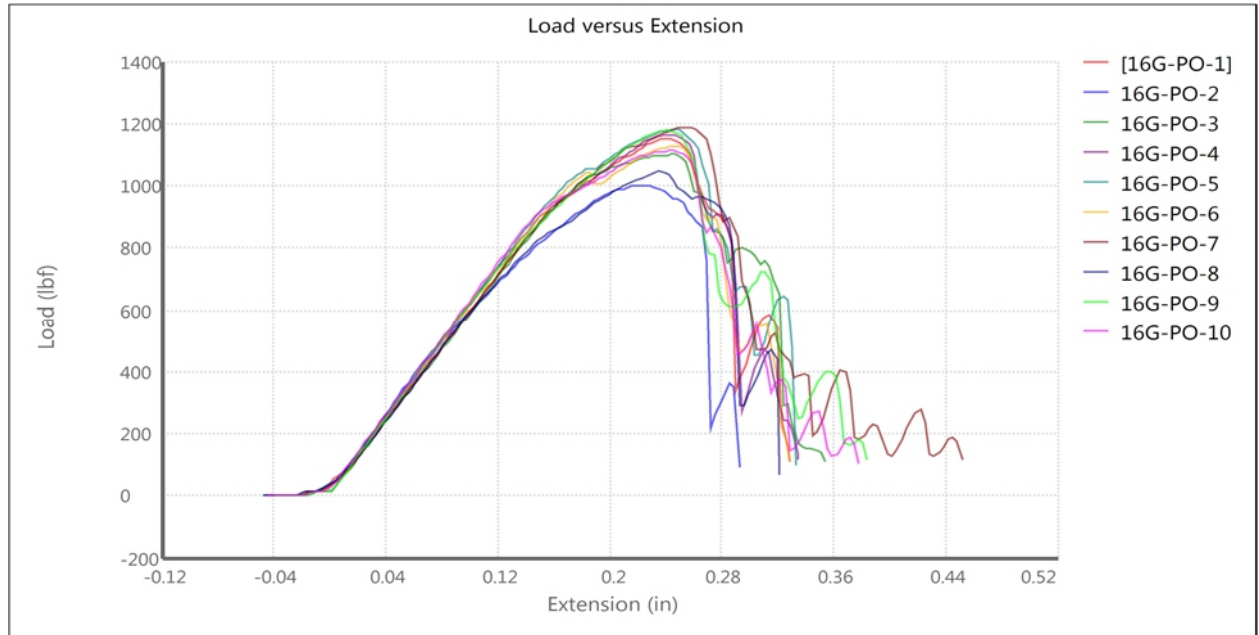
JF3-5.5x35 Pullout Test



Mean Test Run Results

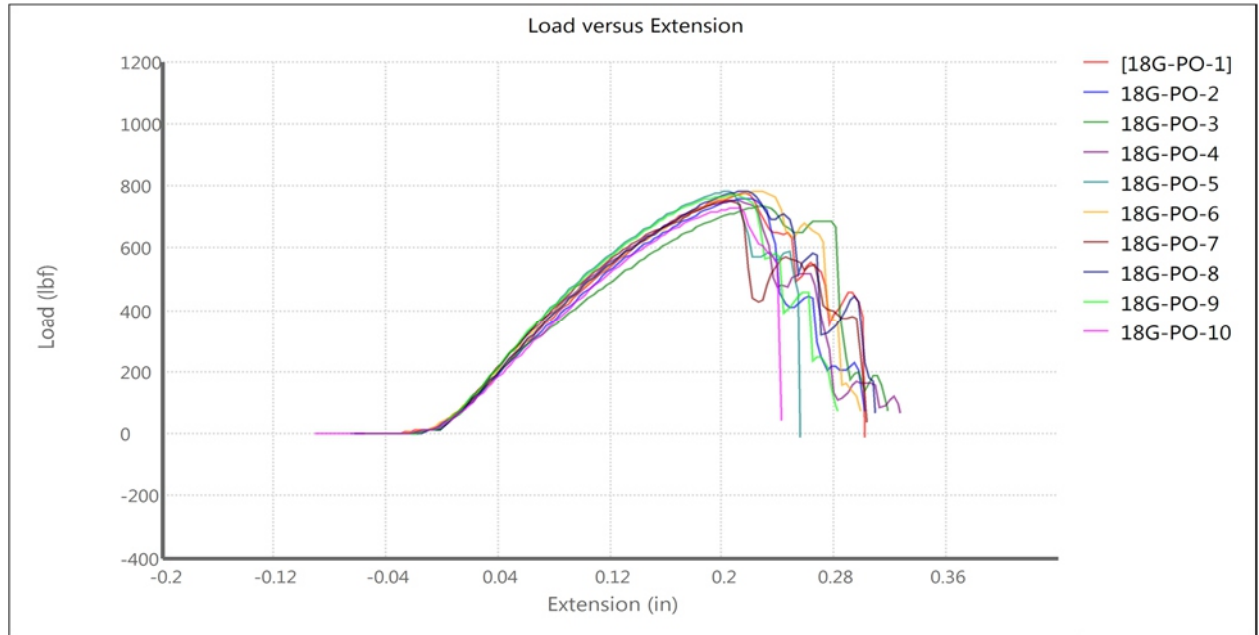
Gauge	Peak Load Mean (lbf)	Load at Yield Mean (lbf)	Elongation at Yield Mean (in)
16 Gauge	1125	1116	0.235
18 Gauge	761	761	0.214
22 Gauge	389	389	0.161
24 Gauge	282	277	0.082

Sheet metal is ASTM A653/A653M Grade A G-90 Galvanized Steel



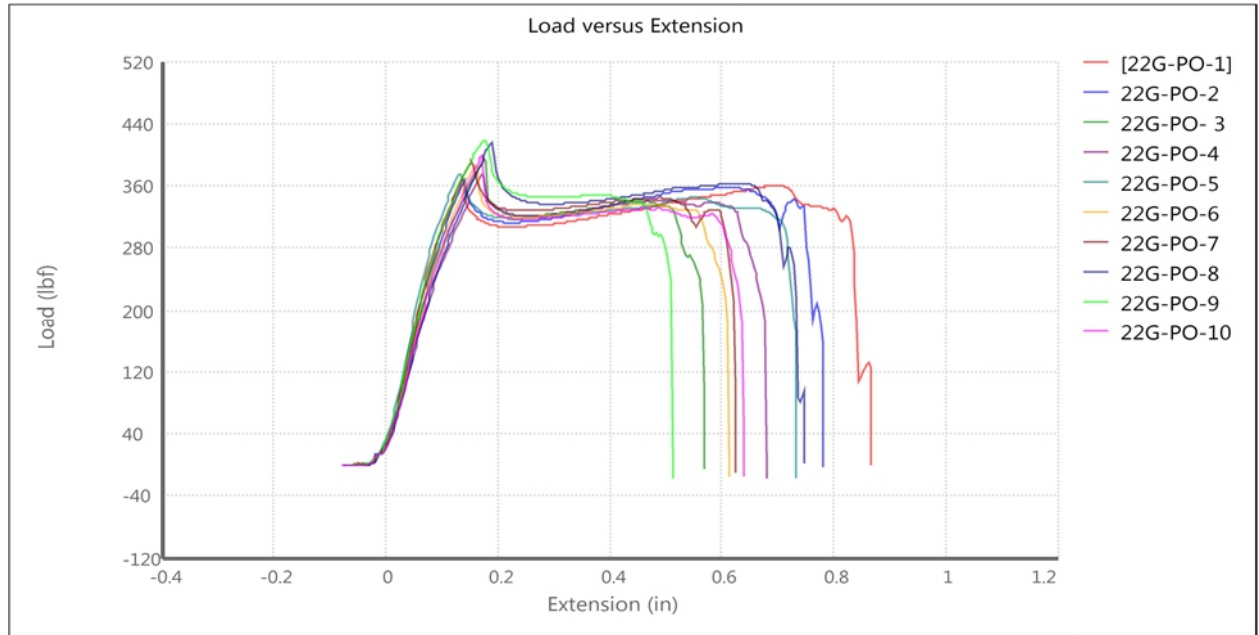
Name	Tagged	Test Run Name	Peak Load (lbf)	Load at Yield (lbf)	Elongation at Yield (in)	Test Run End Reason
16G-PO-1	No	16G-PO-1	1150.541	1150.541	0.240	Break Detected
16G-PO-2	No	16G-PO-2	999.885	999.885	0.222	Break Detected
16G-PO-3	No	16G-PO-3	1101.092	1099.060	0.234	Break Detected
16G-PO-4	No	16G-PO-4	1162.616	1162.616	0.244	Break Detected
16G-PO-5	No	16G-PO-5	1183.015	1183.015	0.247	Break Detected
16G-PO-6	No	16G-PO-6	1126.053	1043.176	0.186	Break Detected
16G-PO-7	No	16G-PO-7	1187.755	1187.755	0.255	Break Detected
16G-PO-8	No	16G-PO-8	1045.680	1045.680	0.236	Break Detected
16G-PO-9	No	16G-PO-9	1178.637	1178.637	0.241	Break Detected
16G-PO-10	No	16G-PO-10	1111.979	1111.979	0.246	Break Detected
	Mean		1124.725	1116.234	0.235	
	Standard Deviation		62.303	67.464	0.019	

Sheet metal is ASTM A653/A653M Grade A G-90 Galvanized Steel



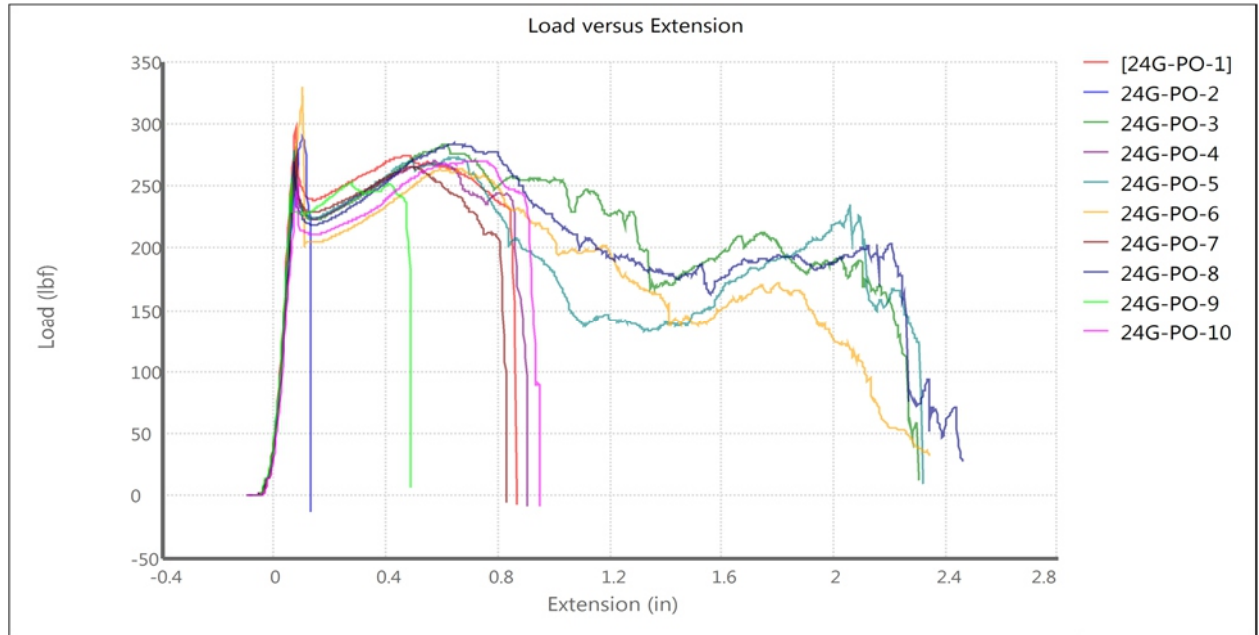
Name	Tagged	Test Run Name	Peak Load (lbf)	Load at Yield (lbf)	Elongation at Yield (in)	Test Run End Reason
18G-PO-1	No	18G-PO-1	773.473	773.473	0.217	Break Detected
18G-PO-2	No	18G-PO-2	757.696	757.696	0.215	Break Detected
18G-PO-3	No	18G-PO-3	732.090	732.090	0.228	Break Detected
18G-PO-4	No	18G-PO-4	750.607	750.607	0.210	Break Detected
18G-PO-5	No	18G-PO-5	783.210	783.210	0.205	Break Detected
18G-PO-6	No	18G-PO-6	780.321	780.321	0.226	Break Detected
18G-PO-7	No	18G-PO-7	750.109	750.109	0.206	Break Detected
18G-PO-8	No	18G-PO-8	783.425	783.425	0.218	Break Detected
18G-PO-9	No	18G-PO-9	767.680	767.680	0.205	Break Detected
18G-PO-10	No	18G-PO-10	727.708	727.708	0.209	Break Detected
	Mean		760.632	760.632	0.214	
	Standard Deviation		20.412	20.412	0.008	

Sheet metal is ASTM A653/A653M Grade A G-90 Galvanized Steel



Name	Tagged	Test Run Name	Peak Load (lbf)	Load at Yield (lbf)	Elongation at Yield (in)	Test Run End Reason
22G-PO-1	No	22G-PO-1	369.667	369.667	0.139	Break Detected
22G-PO-2	No	22G-PO-2	367.562	367.562	0.140	Break Detected
22G-PO-3	No	22G-PO-3	396.049	396.049	0.177	Break Detected
22G-PO-4	No	22G-PO-4	374.762	374.762	0.171	Break Detected
22G-PO-5	No	22G-PO-5	374.419	374.419	0.133	Break Detected
22G-PO-6	No	22G-PO-6	386.032	386.032	0.159	Break Detected
22G-PO-7	No	22G-PO-7	391.949	391.949	0.154	Break Detected
22G-PO-8	No	22G-PO-8	415.093	415.093	0.190	Break Detected
22G-PO-9	No	22G-PO-9	417.292	417.292	0.178	Break Detected
22G-PO-10	No	22G-PO-10	398.897	398.897	0.173	Break Detected
	Mean		389.172	389.172	0.161	
	Standard Deviation		17.934	17.934	0.019	

Sheet metal is ASTM A653/A653M Grade A G-90 Galvanized Steel



Name	Tagged	Test Run Name	Peak Load (lbf)	Load at Yield (lbf)	Elongation at Yield (in)	Test Run End Reason
24G-PO-1	No	24G-PO-1	296.559	296.559	0.079	Break Detected
24G-PO-2	No	24G-PO-2	288.387	288.387	0.104	Break Detected
24G-PO-3	No	24G-PO-3	283.455	280.429	0.078	Break Detected
24G-PO-4	No	24G-PO-4	269.028	267.549	0.078	Break Detected
24G-PO-5	No	24G-PO-5	278.106	278.106	0.073	Break Detected
24G-PO-6	No	24G-PO-6	322.424	322.424	0.103	Break Detected
24G-PO-7	No	24G-PO-7	272.353	272.353	0.078	Break Detected
24G-PO-8	No	24G-PO-8	283.895	261.689	0.076	Break Detected
24G-PO-9	No	24G-PO-9	252.397	250.083	0.065	Break Detected
24G-PO-10	No	24G-PO-10	270.176	249.516	0.086	Break Detected
	Mean		281.678	276.710	0.082	
	Standard Deviation		18.809	22.143	0.013	

Sheet metal is ASTM A653/A653M Grade A G-90 Galvanized Steel