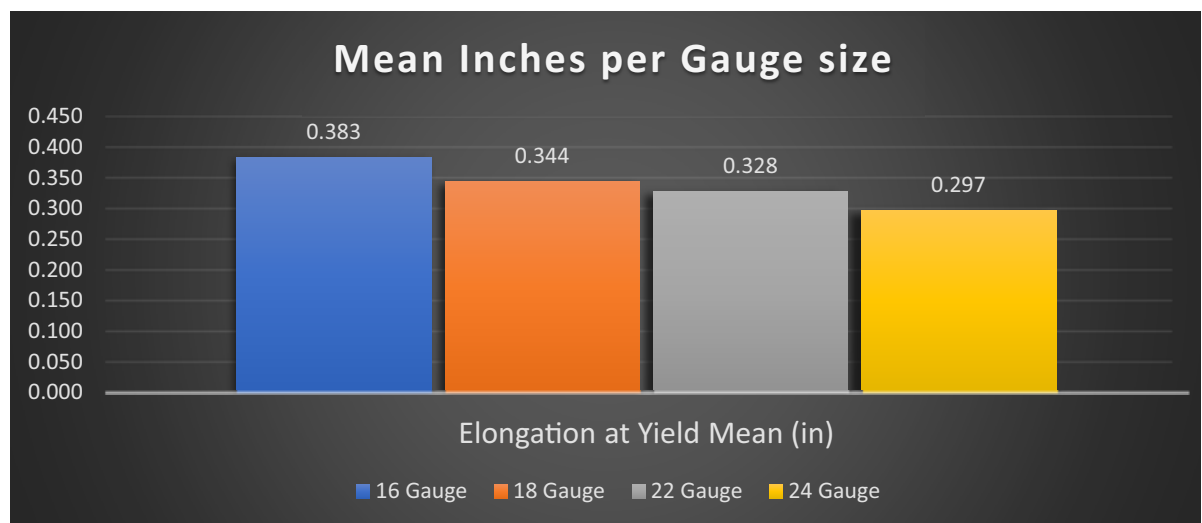
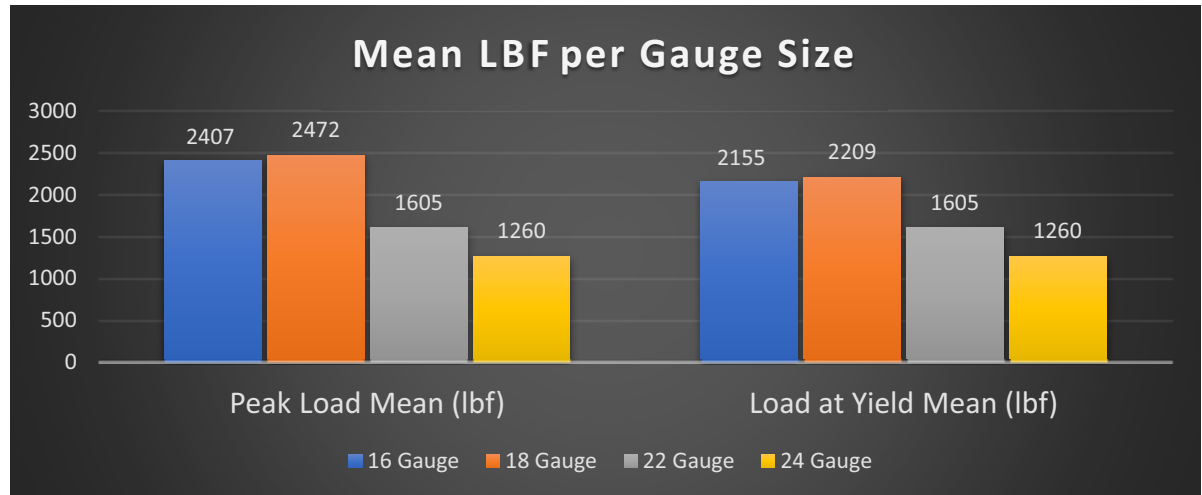


JF3-5.5x35 S16 Pull Through Test

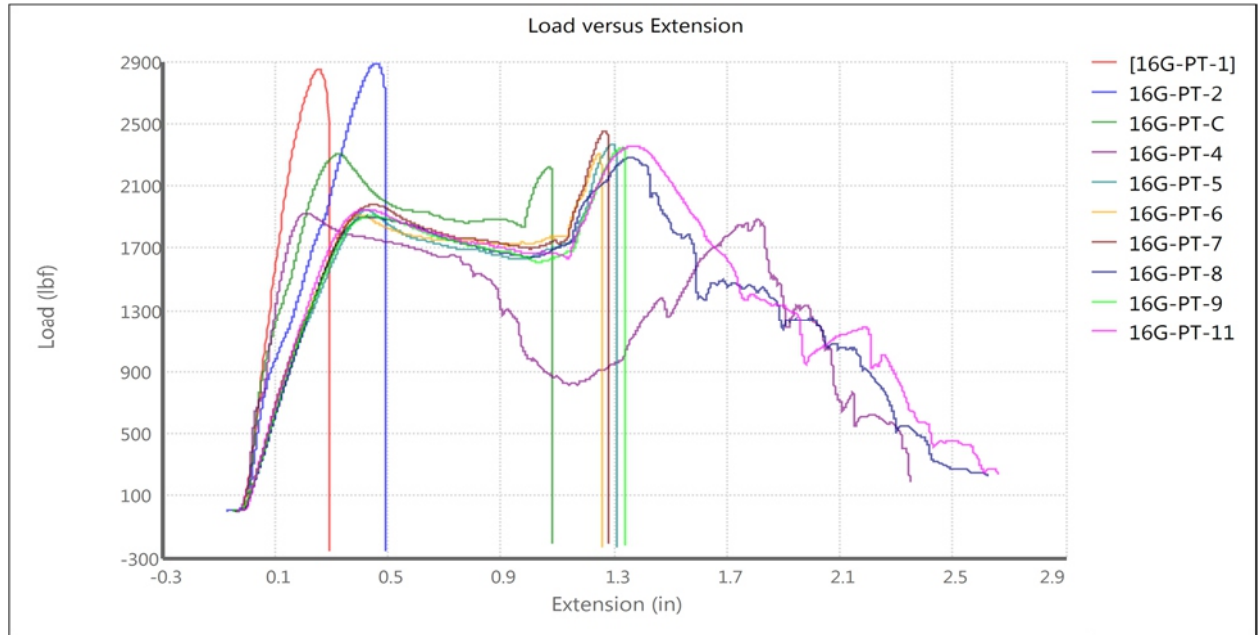


Mean Test Run Results

Gauge	Peak Load Mean (lbf)	Load at Yield Mean (lbf)	Elongation at Yield Mean (in)
16 Gauge	2407	2155	0.383
18 Gauge	2472	2209	0.344
22 Gauge	1605	1605	0.328
24 Gauge	1260	1260	0.297

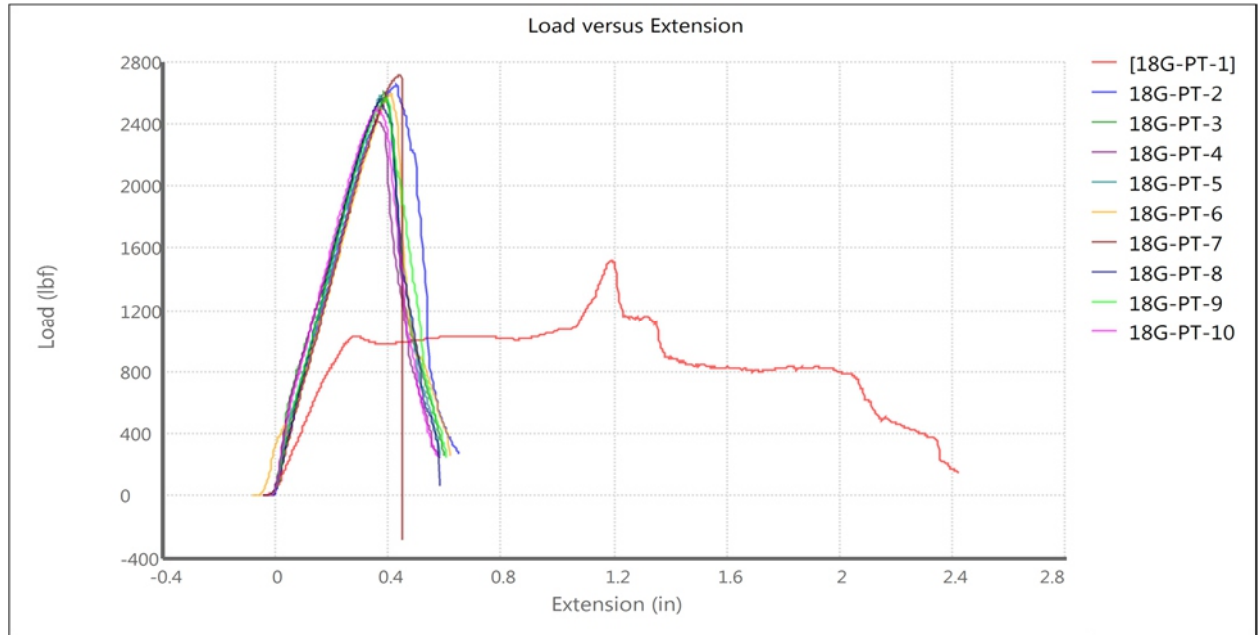


Sheet metal is ASTM A653/A653M Grade A G-90 Galvanized Steel



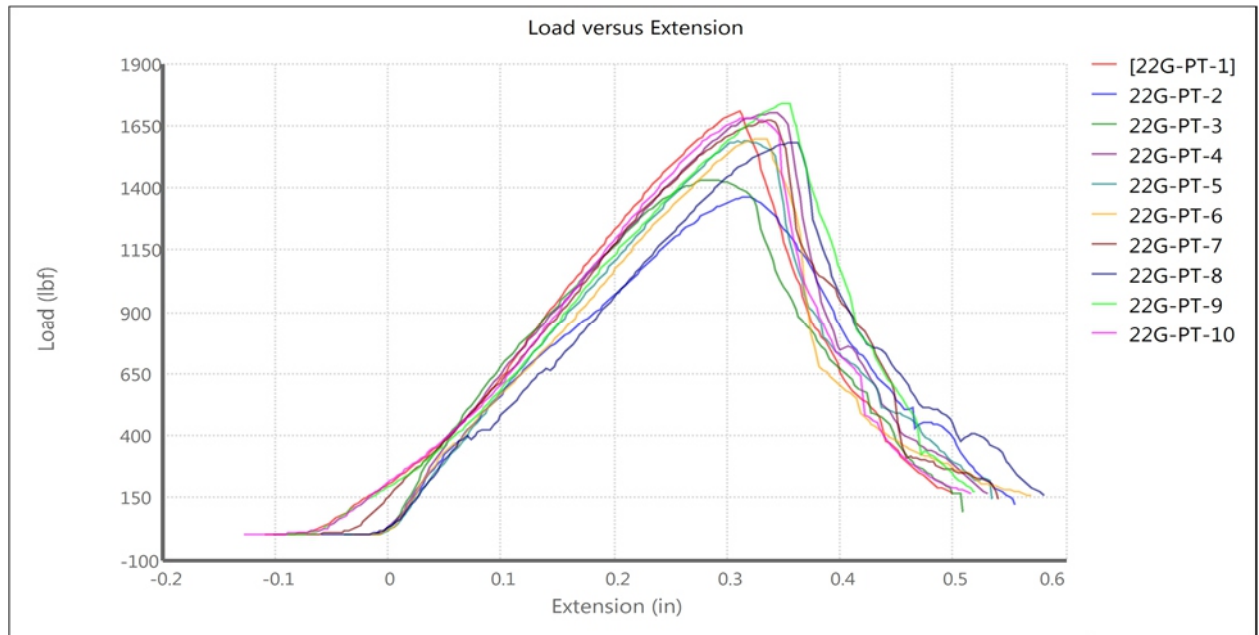
Name	Tagged	Test Run Name	Peak Load (lbf)	Load at Yield (lbf)	Elongation at Yield (in)	Test Run End Reason
16G-PT-1	No	16G-PT-1	2847.211	2847.211	0.254	Break Detected
16G-PT-2	No	16G-PT-2	2887.816	2887.816	0.459	Break Detected
16G-PT-C	No	16G-PT-C	2305.326	2305.326	0.326	Break Detected
16G-PT-4	No	16G-PT-4	1925.625	1925.625	0.209	Break Detected
16G-PT-5	No	16G-PT-5	2365.528	1942.576	0.422	Break Detected
16G-PT-6	No	16G-PT-6	2304.349	1913.082	0.400	Break Detected
16G-PT-7	No	16G-PT-7	2454.026	1979.053	0.450	Break Detected
16G-PT-8	No	16G-PT-8	2281.117	1901.838	0.429	Break Detected
16G-PT-9	No	16G-PT-9	2346.819	1904.243	0.444	Break Detected
16G-PT-11	No	16G-PT-11	2353.686	1943.963	0.439	Break Detected
	Mean		2407.150	2155.073	0.383	
	Standard Deviation		279.644	394.053	0.089	

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



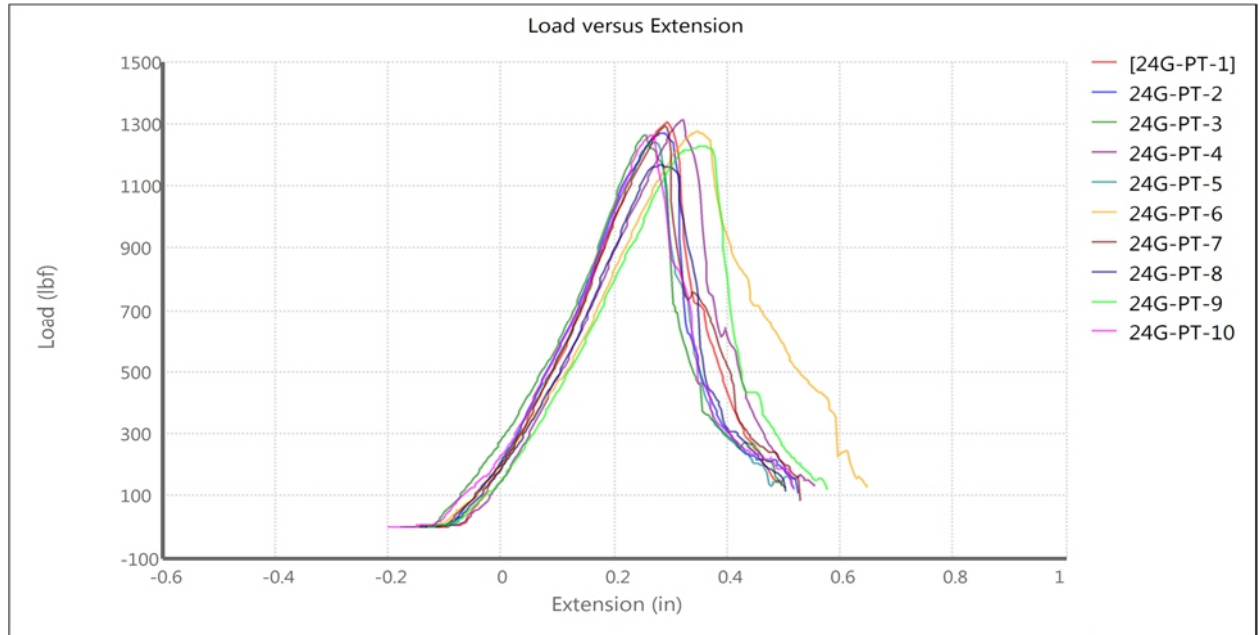
Name	Tagged	Test Run Name	Peak Load (lbf)	Load at Yield (lbf)	Elongation at Yield (in)	Test Run End Reason
18G-PT-1	No	18G-PT-1	1523.376	1027.672	0.288	Break Detected
18G-PT-2	No	18G-PT-2	2644.223	2644.223	0.430	Break Detected
18G-PT-3	No	18G-PT-3	2598.585	2598.585	0.389	Break Detected
18G-PT-4	No	18G-PT-4	2446.742	2446.742	0.347	Break Detected
18G-PT-5	No	18G-PT-5	2582.231	2582.231	0.377	Break Detected
18G-PT-6	No	18G-PT-6	2588.396	459.465	0.037	Break Detected
18G-PT-7	No	18G-PT-7	2708.147	2708.147	0.441	Break Detected
18G-PT-8	No	18G-PT-8	2557.002	2557.002	0.375	Break Detected
18G-PT-9	No	18G-PT-9	2561.086	2561.086	0.395	Break Detected
18G-PT-10	No	18G-PT-10	2509.007	2509.007	0.363	Break Detected
	Mean		2471.879	2209.416	0.344	
	Standard Deviation		340.621	787.235	0.116	

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Name	Tagged	Test Run Name	Peak Load (lbf)	Load at Yield (lbf)	Elongation at Yield (in)	Test Run End Reason
22G-PT-1	No	22G-PT-1	1706.785	1706.785	0.311	Break Detected
22G-PT-2	No	22G-PT-2	1362.250	1362.250	0.317	Break Detected
22G-PT-3	No	22G-PT-3	1433.707	1433.707	0.290	Break Detected
22G-PT-4	No	22G-PT-4	1698.570	1698.570	0.341	Break Detected
22G-PT-5	No	22G-PT-5	1584.910	1584.910	0.319	Break Detected
22G-PT-6	No	22G-PT-6	1597.066	1597.066	0.332	Break Detected
22G-PT-7	No	22G-PT-7	1667.831	1667.831	0.339	Break Detected
22G-PT-8	No	22G-PT-8	1581.318	1581.318	0.360	Break Detected
22G-PT-9	No	22G-PT-9	1741.059	1741.059	0.352	Break Detected
22G-PT-10	No	22G-PT-10	1681.163	1681.163	0.319	Break Detected
	Mean		1605.466	1605.466	0.328	
	Standard Deviation		123.230	123.230	0.021	

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Name	Tagged	Test Run Name	Peak Load (lbf)	Load at Yield (lbf)	Elongation at Yield (in)	Test Run End Reason
24G-PT-1	No	24G-PT-1	1301.730	1301.730	0.295	Break Detected
24G-PT-2	No	24G-PT-2	1268.272	1268.272	0.284	Break Detected
24G-PT-3	No	24G-PT-3	1264.212	1264.212	0.257	Break Detected
24G-PT-4	No	24G-PT-4	1312.053	1312.053	0.322	Break Detected
24G-PT-5	No	24G-PT-5	1238.906	1238.906	0.274	Break Detected
24G-PT-6	No	24G-PT-6	1271.665	1271.665	0.346	Break Detected
24G-PT-7	No	24G-PT-7	1291.461	1291.461	0.290	Break Detected
24G-PT-8	No	24G-PT-8	1165.394	1165.394	0.281	Break Detected
24G-PT-9	No	24G-PT-9	1225.340	1225.340	0.355	Break Detected
24G-PT-10	No	24G-PT-10	1265.185	1265.185	0.266	Break Detected
	Mean		1260.422	1260.422	0.297	
	Standard Deviation		42.537	42.537	0.033	

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