



**Over 100 Years of Experience**

# Ultra-Z

PULL-OUT VALUES (lbs.)												
Gauge												
Size	Point	26	24	22	20	18	16	14	12	1/8	3/16	1/4
#8-18	TCP2	-	196	268	301	494	706	962	-	-	-	-
	TCP3	123	194	242	288	473	666	913	1,427	2,290	-	-
#10-16	TCP1	151	244	314	372	568	829	1,114	1,799	-	-	-
	TCP2	134	217	275	360	550	787	1,036	1,656	-	-	-
	TCP3	127	211	269	302	502	711	970	1,477	2,080	-	-
#10-24	TCP3	124	203	254	336	498	704	903	1,378	2,073	2,615	-
#12-14	TCP1	161	264	341	393	652	911	1,262	1,952	-	-	-
	TCP2	159	246	292	378	608	851	1,184	1,859	2,571	3,523	-
	TCP3	145	214	286	344	554	760	1,066	1,634	2,423	3,001	-
#12-24	TCP4	-	-	-	-	498	700	989	1,535	2,444	3,488	-
	TCP5	-	-	-	-	498	700	989	1,535	2,444	3,488	-
1/4-14	TCP1	211	332	431	565	803	1,154	-	-	-	-	-
	TCP2	169	268	317	433	648	925	1,155	2,065	2,691	-	-
	TCP3	144	234	296	349	613	883	1,148	1,861	2,409	4,553	-
1/4-20	TCP3	143	228	274	366	559	784	1,008	1,681	2,545	3,557	-
	TCP5	-	-	-	-	557	791	1,119	1,806	2,553	4,300	-
#18-9	TCP1	366	408	525	580	850	1,267	-	-	-	-	-



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1628 Troy Road • Ashland Ohio, 44805  
T: 419-289-6171 • F: 419-289-2564

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**PULL-OVER VALUES (lbs)**

Gauge						
Size	Point	18 (.050)	20 (.040)	22 (.0299)	24 (.0239)	26 (.0179)
#8-18	TCP2	2,350	1,750	1,325	950	650
#10-12	TCP1	1,526	1,125	863	735	462
#10-16	TCP3	2,350	1,750	1,325	950	650
#12-14	TCP2	1,890	1,302	1,107	925	586
	TCP3	1,830	1,247	1,087	819	544
	TCP4	1,812	1,231	1,075	796	535
#12-24	TCP5	2,350	1,750	1,325	950	650
1/4-14	LAP	1,973	1,396	1,149	966	614
	TCP3	1,950	1,393	1,085	932	598
1/4-20	TCP4	2,350	1,750	1,325	950	650
#18-9	LAP	2,013	1,391	1,271	963	633

**SHEAR VALUES**

Gauge												
Size	Point	2x26 (.036)	2x24 (.046)	2x22 (.060)	2x20 (.072)	2x18 (.096)	2x16 (.120)	2x14 (.150)	2x12 (.210)	2x1/8 (.250)	2x3/16 (.375)	2x1/4 (.500)
#8-18	TCP2	297	499	563	743	1,063	1,081	-	-	-	-	-
	TCP3	-	-	-	733	1,093	1,213	1,217	-	-	-	-
#10-16	TCP2	315	481	592	833	1,209	1,271	-	-	-	-	-
	TCP3	-	-	-	731	1,269	1,543	1,555	-	-	-	-
#10-24	TCP3	-	-	-	754	1,211	1,557	1,697	-	-	-	-
#12-14	TCP1	435	706	756	1,021	1,455	-	-	-	-	-	-
	TCP2	368	603	626	901	1,373	1,761	2,141	-	-	-	-
	TCP3	-	-	-	772	1,361	1,623	1,973	1,989	-	-	-
#12-24	TCP4	-	-	-	-	-	-	-	2,051	2,703	-	-
	TCP5	-	-	-	-	-	-	-	2,051	2,703	-	-
1/4-14	TCP1	514	852	888	1,247	1,767	-	-	-	-	-	-
	TCP3	366	458	729	933	1,445	2,103	2,587	2,653	-	-	-



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