

Traxx/Metalfast SD Ultimate Pullout Values

*ULTIMATE PULLOUT VALUES (POUNDS)

Size	Point	Gauge										
		26	24	22	20	18	16	14	12	1/8	3/16	1/4
8-18	T/2	119	193	265	298	491	703	959	1558			
	T/3	120	191	239	285	470	663	910	1424	2287		
10-16	T/1	148	241	311	357	565	826	1111	1796			
	T/2	131	214	272	368	547	784	1033	1653			
	T/3	124	208	266	299	499	708	967	1474	2077		
10-24	T/3	121	200	251	333	495	701	900	1375	2070	2612	
12-14	T/1	158	261	338	390	649	908	1259	1949			
	T/2	156	243	283	375	605	848	1181	1856	2568	3520	
	T/3	142	211	289	341	551	757	1063	1631	2420	2998	
12-24	T/4					495	697	986	1532	2441	3485	3844
	T/5					487	699	913	1527	2207	3701	3999
1/4-14	T/1	208	329	428	562	800	1151					
	T/2	166	265	314	430	645	922	1152			4693	
	T/3	141	231	293	346	613	880	1145	1858	2406	4550	5033
1/4-20	T/3	140	225	271	363	556	781	1005	1678	2542	3554	
	T/4					554	788	1116	1803	2550	4297	4589

STRENGTH CHARACTERISTICS

Fastener Size	Minimum Tensile (Pounds)	Minimum Fastener Torque Strength (Inch-Pounds)	Ultimate Fastener Shear (Pounds)
6-20	1125	25	750
8-18	1575	42	1000
10-16	2100	61	1400
10-24	2350	65	1500
12-14	2800	92	2000
12-24	3250	100	2100
1/4-14	3850	150	2600
1/4-20	4275	168	2700

*NOTE: An appropriate safety factor should be applied to the ultimate test values.

NOMINAL SCREW SIZES		SHEET STEEL GAUGES		THICKNESS RECOMMENDATIONS FOR TRAXX®/METALFAST SD™/PLY-FAST™									
Thread Diameter	Decimal Equiv.	Common Sheet Stl. Gauges	Decimal Equiv.	MATERIAL THICKNESS IN INCHES									
#6	.140	26	.018	.048									
#7	.150	24	.024	.028									
#8	.160	22	.030	.028									
#9	.180	20	.036	.028									
#10	.190	18	.048	.035									
#11	.200	16	.060	.035									
#12	.210	14	.075	.035									
#13	.230	12	.105	.035									
1/4	.240			.035									
#14	.250	10	.134	.035									
#17	.285	8	.164	.035									
#18	.304	1/4	.250	.035									
11/32	.340	1/2	.500	.035									

EXAMPLE: **10** — **16** x **3/4** **HWH** **TRAXX/3**

NOMINAL SCREW SIZE THREADS PER INCH SCREW LENGTH HEAD STYLE DRILL POINT TYPE

STRENGTH CHARACTERISTICS

Diameter	Threads Per Inch	Point #	Ultimate Shear	Minimum Tensile/Lbs	Maximum Torque /Inch Lbs
12	14	3	2000	2800	92
12	14	2	2000	2800	92
1/4	14	1	2600	3850	150

ULTIMATE PULLOUT

Screw Description	Test Material	Ultimate Pullout/Lbs
Metalfast #12 - 14	16 ga. Steel	703
Mechanical Zinc Plating (.0007") Min.	14 ga. Steel	890
ECFC Reduced Point	12 ga. Steel	1910

Drilling Technique

EAST COAST TRAXX®/METALFAST SD™/PLY-FAST™ ARE SELF-DRILLING FASTENERS...THEY DRILL, TAP AND FASTEN IN ONE OPERATION.

A separate drilling operation is not necessary. However, specific installation procedures are necessary to insure correct fastening results and to achieve published performance values for each fastener.

Important: A 1900 to 2500 RPM screwgun rated at 5 amps or higher, equipped with a **properly adjusted depth-limiting nosepiece**, must be used for correct fastening results. During

initial drilling, enough pressure must be applied while keeping the screwgun and fastener perpendicular to the work surface to prevent angle driving or walking. **Drilling must be completed before the threads engage the material.** The correct fastener based upon the total thickness and type of material to be drilled and fastened for an application is very essential. Never overdrive the fasteners or install fasteners at an angle to the work surface, as this may significantly reduce product performance or lead to product failure.

Contact East Coast Fasteners & Closures toll-free at 1-800-558-5895, for any specific information necessary.

