

TEKS Light Duty Steel-To-Steel Applications

PERFORMANCE TABLES

Sheet Steel Gauges

GAUGE NO.	12	14	16	18	20	22	24	26
Nominal Decimal Equivalent (Inch)	.105	.075	.060	.048	.036	.030	.024	.018

Pullout Values (Average Lbs. Ultimate)

FASTENER		STEEL GAUGE (Lbs.)							
DIA.	PT	26	24	22	20	18	16	14	12
#8	2	119	193	265	298	491	703	959	-----
#10-16	1	148	241	311	357	565	826	1111	1796
	3	124	208	266	299	499	708	967	1474
1/4	1	208	329	428	562	800	1151	-----	-----

Shear Values (Average Lbs. Ultimate)

FASTENER		STEEL GAUGE (Lapped)						
DIA.	PT	26	24	22	20	18	16	14
#8	2	294	496	560	740	1060	-----	-----
#10	1	398	584	659	884	1374	-----	-----
	3	-----	455	526	728	1266	1540	1552
1/4	1	511	849	885	1244	1764	-----	-----

Fastener Values

FASTENER (Dia-TPI)	TENSILE (Lbs. Min)	SHEAR (Avg. Lbs. Ultimate)	TORQUE (Min. in Lbs.)
8-18	1545	1000	42
10-16	1936	1400	61
10-24	2702	1500	65
12-14	2778	2000	92

The values listed are ultimate averages achieved under laboratory conditions and apply to Buildex manufactured fasteners only. Appropriate safety factors should be applied to these values for design purposes.

TEKS Medium Duty Steel-To-Steel Applications

PERFORMANCE TABLES

Sheet Steel Gauges

GAUGE NO.	12	14	16	18	20	22	24	26
Nominal Decimal Equivalent (Inch)	.105	.075	.060	.048	.036	.030	.024	.018

Pullout Values (Average Lbs. Ultimate)

FASTENER		STEEL GAUGE (Lbs.)								
DIA.	PT	26	24	22	20	18	16	14	12	3/16
#12	2	156	243	283	375	605	848	1181	1856	3520
	3	142	211	289	341	551	757	1063	1631	2998
1/4	3	141	231	293	346	613	880	1145	1858	4550

Shear Values (Average Lbs. Ultimate)

FASTENER		STEEL GAUGE (Lapped)							
DIA.	PT	26	24	22	20	18	16	14	12
#12	2	365	600	623	898	1370	1758	2138	2202
	3	-----	-----	-----	769	1358	1620	1970	1986
1/4	3	-----	-----	-----	930	1442	2100	2584	2650

Fastener Values

FASTENER (Dia-TPI)	TENSILE (Lbs. Min)	SHEAR (Avg. Lbs. Ultimate)	TORQUE (Min. in Lbs.)
12-14	2778	2000	92
1/4-14	4060	2600	150

The values listed are ultimate averages achieved under laboratory conditions and apply to Buildex manufactured fasteners only. Appropriate safety factors should be applied to these values for design purposes.

TEKS Heavy Duty Steel-To-Steel Applications

PERFORMANCE TABLES

Sheet Steel Gauges

GAUGE NO.	12	14	16	18	20	22	24	26
Nominal Decimal Equivalent (Inch)	.105	.075	.060	.048	.036	.030	.024	.018

Pullout Values (Average Lbs. Ultimate)

FASTENER		STEEL GAUGE (Lbs.)				
DIA.	PT	16	14	12	3/16	1/4
#12	4	-----	-----	1532	3485	4013
	4.5	-----	-----	1508	3865	4101
	5	-----	-----	1527	3701	3999
1/4	5	-----	-----	1507	3300	5059

Shear Values (Average Lbs. Ultimate)

FASTENER		STEEL GAUGE (Lapped)				
DIA.	PT	16	14	12	1/8	1/4
#12	4	-----	-----	2048	2030	-----
	4.5	-----	-----	2641	2887	2897
	5	-----	-----	2650	2700	2762
1/4	5	1597	2005	2350	2792	3310

Fastener Values

FASTENER (Dia-TPI)	PT	TENSILE (Lbs. Min.)	SHEAR (Avg. Lbs. Ultimate)	TORQUE (Min. in Lbs.)
12-24	4	3020	2100	100
12-24	4.5	3165	2200	150
12-24	5	3020	2100	150
1/4-28	5	5577	3310	234

NOTE: Tek's fasteners are not categorized as structural bolts. Proper design criteria and strengths must be used for satisfactory application. The values listed are ultimate averages achieved under laboratory conditions and apply to Buildex manufactured fasteners only. Appropriate safety factors should be applied to these values for design purposes.