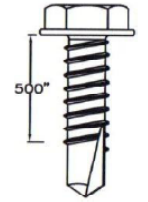

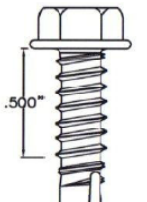
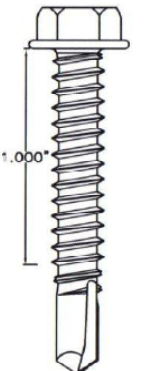
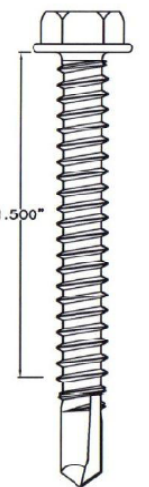
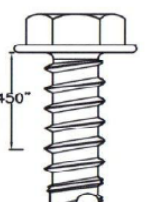
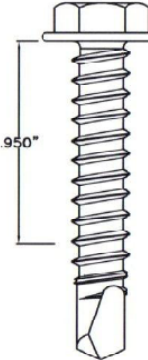
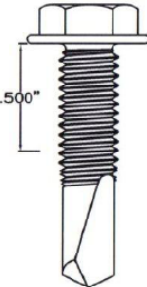

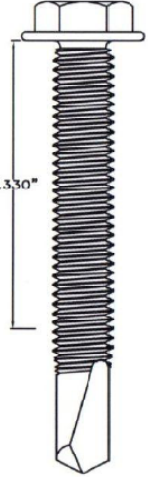

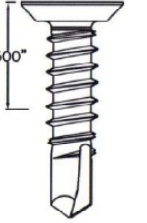


TABLE 1 – ITW BUILDEX TEKS SELECT™ SCREWS

Description	10-16x3/4" HWH Tek/3	12-14x7/8" HWH Tek/3	12-14x1" HWH Tek/3	12-14x1-1/2" HWH Tek/3	12-14x2" HWH Tek/3	1/4-14 X 1" HWH Tek/3
Part No.	1076000	1112000	1080000	1114000	1117000	1119000
Drilling Capacity	0.150"	0.187"	0.187"	0.187"	0.187"	0.210"
Maximum Load Bearing Area Indicated by Arrows						
Description	1/4-14 X 1-1/2" HWH Tek/3	1/4-20x1-1/8" HWH Tek/4	1/4-20x1-1/2" HWH Tek/4	1/4-20x2" HWH Tek/4	1/4-20x2-1/2" HWH Tek/4	#12-14X1" Undercut PFH Tek/3
Part No.	1121000	1124000	1125000	1078000	1126000	1132000
Drilling Capacity	0.210"	0.210-0.312"	0.210-0.312"	0.210-0.312"	0.210-0.312"	0.187"
Maximum Load Bearing Area Indicated by Arrows						

**TABLE 2 – ALLOWABLE TENSILE PULL-OUT LOADS ( $P_{NOT}/\Omega$ ), pounds-force<sup>1, 2, 3, 4</sup>**

Allowable Pullout Values ( $P/\Omega$ ) on Cold Formed Steel and Aluminum; $\Omega=3.0$														
Screw Designation	Nominal Diameter (in.)	Steel Gauge/Thickness								Aluminum Thickness				
										6063-T52			6063-T6	
		18	16	14	12	1/8"	3/16"	1/4"	5/16"	1/8"	1/4"	3/8"	1/8"	1/4"
#10-16 HWH	0.190	140	182	211	388	404				250			377	
#12-14 HWH	0.216	138	186	230	481	496	809			278	680		434	864
#12-14 UPFH	0.216	140	218	252	473	507	837			274	642		418	812
1/4-14 HWH	0.250	170	224	274	431	582	971			283	732		403	997
1/4-20 HWH	0.250	157	231	282	427	571	1066	1422	1422	281	685	1118	396	949

1. For tension connections, the lower of the allowable pull-out, pullover, and fastener tension strength found in Table 2, 3, and 4, respectively must be used for design.
2. Nominal strengths are based on laboratory tests. Steel is compliance with AISI Manual of Cold-formed Steel Design, 2008 Edition, Part I: Dimension and Properties for Use with the 2007 North American Cold-Formed Steel Specification with minimum tensile strength 58 ksi. Aluminum is compliance with 2010 Aluminum Design Manual, Part I specification for Aluminum Structures; 6063-T52 with minimum tensile strength 22 ksi, or 6063-T6 with minimum tensile strength 30 ksi.
3. To calculate LRFD values, multiply values in table by the ASD safety factor of 3.0 and multiply again with the LRFD  $\Phi$  factor of 0.5.
4. The base-metal thickness of 18 gauge steel is 0.048"; 16 gauge is 0.060"; 14 gauge is 0.075"; and 12 gauge is 0.105";

**TABLE 3 – ALLOWABLE TENSILE PULL-OVER LOADS ( $P_{NOT}/\Omega$ ), pounds-force<sup>1, 2, 3, 4</sup>**

Allowable Pullover Values ( $P/\Omega$ ) on Cold Formed Steel and Aluminum; $\Omega=3.0$														
Screw Designation	Nominal Diameter (in.)	Steel Gauge/Thickness								Aluminum Thickness				
										6063-T52			6063-T6	
		18	16	14	12	1/8"	3/16"	1/8"	1/4"	3/8"	1/8"	1/4"		
#10-16 HWH	0.190	557	645	718	718	718				578			640	
#12-14 HWH	0.216	619	798	898	1092	1092	1092			586	827		783	885
#12-14 UPFH	0.216	489	624	716	716	716	716			561	818		750	818
1/4-14 HWH	0.250	661	958	1074	1514	1514	1514			722	1091		944	1183
1/4-20 HWH	0.250	667	916	1076	1568	1568	1568			688	1170	1190	922	1243

1. For tension connections, the lower of the allowable pull-out, pullover, and fastener tension strength found in Table 2, 3, and 4, respectively must be used for design.
2. Nominal strengths are based on laboratory tests. Steel is compliance with AISI Manual of Cold-formed Steel Design, 2008 Edition, Part I: Dimension and Properties for Use with the 2007 North American Cold-Formed Steel Specification with minimum tensile strength 58 ksi. Aluminum is compliance with 2010 Aluminum Design Manual, Part I specification for Aluminum Structures; 6063-T52 with minimum tensile strength 22 ksi, or 6063-T6 with minimum tensile strength 30 ksi.
3. To calculate LRFD values, multiply values in table by the ASD safety factor of 3.0 and multiply again with the LRFD  $\Phi$  factor of 0.5.
4. The base-metal thickness of 18 gauge steel is 0.048"; 16 gauge is 0.060"; 14 gauge is 0.075"; and 12 gauge is 0.105";

**TABLE 4 – FASTENER STRENGTH OF SCREWS, pound-force<sup>1, 2, 3, 4</sup>**

Fastener	Allowable Fastener Strength $\Omega=3$		Nominal Fastener Strength (Tested)	
	Tensile, $P_{ts}/\Omega$ (lb)	Shear, $P_{ss}/\Omega$ (lb)	Tensile, $P_{ts}$ (lb)	Shear, $P_{ss}$ (lb)
#10-16 HWH	866	536	2598	1607
#12-14 HWH	1076	697	3227	2091
#12-14 UPFH	1039	645	3118	1935
#14-14 HWH	1455	909	4365	2727
#14-20 HWH	1561	908	4683	2725

1. For tension connections, the lower of the allowable pull-out, pullover, and fastener tension strength found in Table 2, 3, and 4, respectively must be used for design.
2. Nominal strengths are based on laboratory tests;
3. To calculate LRFD values, multiply values in table by the ASD safety factor of 3.0 and multiply again with the LRFD  $\Phi$  factor of 0.5.
4. The base-metal thickness of 18 gauge steel is 0.048"; 16 gauge is 0.060"; 14 gauge is 0.075"; and 12 gauge is 0.105";

**TABLE 5 - ALLOWABLE SHEAR (BEARING) CAPACITY, pounds-force<sup>1, 2, 3, 4</sup>**

Allowable Shear Values (S/Ω) on Cold Formed Steel and Aluminum; Ω=3.0												
Screw Designation	Nominal Diameter (in.)	Steel Gauges/(Thickness)							Aluminum Thickness			
									6063-T52		6063-T6	
		18-18	18-14	16-16	14-14	1/8"-3/16"	12-1/4"	3/16"-1/4"	1/8"-1/8"	1/8"-1/4"	1/8"-1/8"	1/8"-1/4"
# 10-16 HWH	0.190	331	583	475					402		454	
# 12-14 HWH	0.216	372	646	520	646				456	728	566	603
# 12-14 UPFH	0.216	375	662	542	636				520	580	639	542
1/4-14 HWH	0.250	376	622	536	785	838			519	806	731	810
1/4-20 HWH	0.250	356	687	520	760	854	860	860	529	819	692	921

1. The lower of the allowable shear (bearing) and the allowable fastener shear strength found in Table 4 and 5, respectively must be used for design.
2. Nominal strengths are based on laboratory tests. Steel is compliance with AISI Manual of Cold-formed Steel Design, 2008 Edition, Part I: Dimension and Properties for Use with the 2007 North American Cold-Formed Steel Specification with minimum tensile strength 58 ksi. Aluminum is compliance with 2010 Aluminum Design Manual, Part I specification for Aluminum Structures; 6063-T52 with minimum tensile strength 22 ksi, or 6063-T6 with minimum tensile strength 30 ksi.
3. To calculate LRFD values, multiply values in table by the ASD safety factor of 3.0 and multiply again with the LRFD Φ factor of 0.5.
4. The base-metal thickness of 18 gauge steel is 0.048"; 16 gauge is 0.060"; 14 gauge is 0.075"; and 12 gauge is 0.105";

**TABLE 6 - MINIMUM FASTENER SPACING AND EDGE DISTANCES**

Screws Size	Screw Nominal Diameter (inch)	Fastened Material	Minimum Spacing (inch)	Minimum Edge Distance (inch)
No. 10	0.190	Steel	0.570	0.285
		Aluminum	0.760	0.380
No. 12	0.216	Steel	0.648	0.324
		Aluminum	0.864	0.432
1/4"	0.250	Steel	0.750	0.375
		Aluminum	1.000	0.500