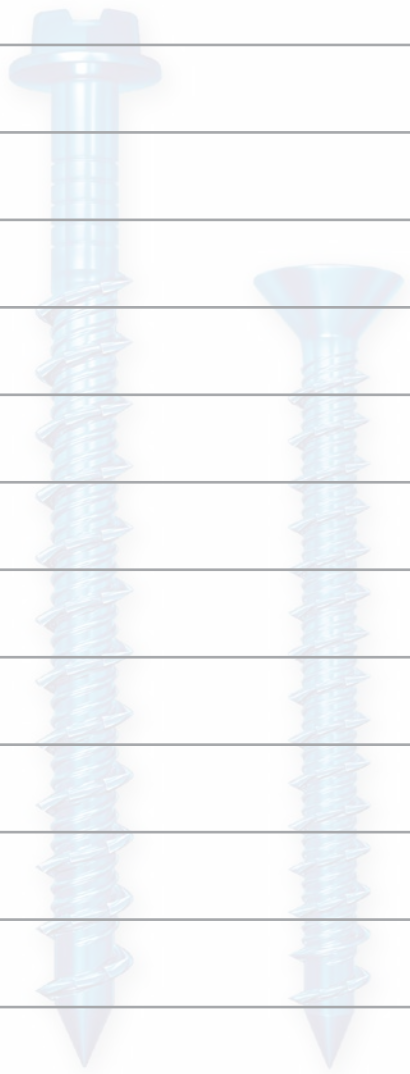

ITW Buildex

Notes



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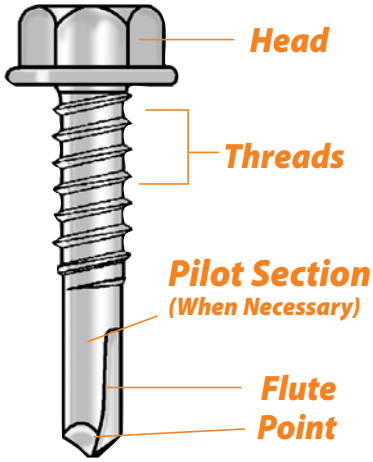
ITW Buildex

TEKS® Fastening Features

FEATURES



HEAD
Proper head style choice will ensure stability during driving, proper clamping and desired finished appearance.

THREAD FORM AND DIAMETER
The correct choice of thread form and diameter optimizes low installation torque with high pullout strength.

PILOT SECTION
The unthreaded portion of the point assures the drilling of the steel is completed before the threads begin tapping into the drilled hole.

POINT
The point is designed to efficiently remove material and precisely size the hole for the thread.

FINISH
Platings and coatings provide lubricity during drilling and tapping as well as corrosion resistance.

FASTENER DESCRIPTION AND BREAKDOWN — EXAMPLE

10	-	16	x	3/4"	HWH	Teks/3
Nominal Screw Size		Threads Per Inch		Screw Length	Head Style	Drill Point Type

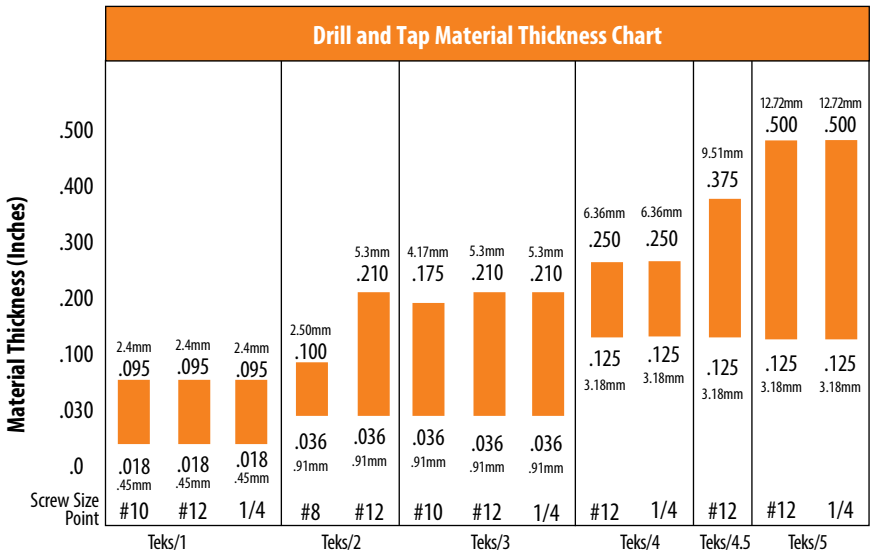
Nominal Screw Sizes

Thread Diameter	Decimal Equivalent
#6	.140
#7	.150
#8	.160
#9	.180
#10	.190
#11	.200
#12	.210
#13	.230
#14	.240
1/4	.250
#17	.286

Steel Gauge Chart

Common Sheet Steel Gauges	Decimal Eq.	
	Inches	MM
30	.012	.30
28	.015	.38
26	.018	.45
24	.024	.61
22	.030	.76
20	.036	.91
18	.048	1.21
16	.060	1.52
14	.075	1.90
12	.105	2.65
1/8	.125	3.18
10	.134	3.42
3/16	.187	4.77
1/4	.250	6.36
1/2	.500	12.72

Drill and Tap Material Thickness Chart

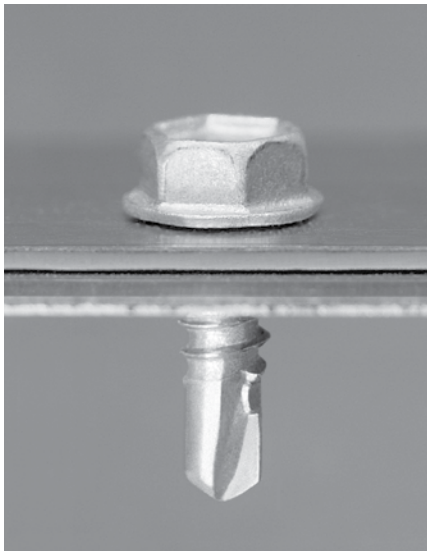


*Drill & tap capacities may vary with special feature designs.
Refer to product reports for specifics.

ITW Buildex

TEKS® Self-Drilling Fasteners

Preferred Most by Electrical, Decking, HVAC and Metal Building Contractors



DESCRIPTION/ADVANTAGES

Light Duty Steel-To-Steel Applications—

TEKS Self-Drilling Fasteners

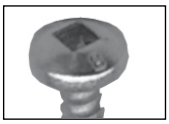
- Sharp convex drill point has precise cutting edges to improve drill performance with less effort.
- Non-walking point provides fast material engagement.
- Unique point to thread design extrudes the metal preventing stripout.
- Point to thread design maximizes pullout performance and minimizes backout.
- Three head styles available to handle various applications.
- Climaseal® finish provides excellent corrosion resistance

SPECIFICATIONS

Diameter / Thread Form
8-18 and 10-16

Head Styles

Hex Washer Head (HWH)



Socket Pan Head (SP)

Modified Truss Head (MTH)

Drill Point

Teks 2

Teks 3

Finish

Type	Kesternich Results (DIN 50018, 2.0L)	Salt Spray Results (ASTM B117)
Electro-zinc (EZ)	3 cycles - 5% or less red rust	48 hours - 5% or less red rust
Climaseal® Coating (CL)	30 cycles - 10% or less red rust	1000 hours - 10% or less red rust
Climaseal®+ Coating (CL+)	Meets or exceeds Kesternich and Salt Spray Results of Climaseal® Coating (CL)	

INSTALLATION INSTRUCTIONS

1. A standard screwgun with a depth sensitive nosepiece should be used to install Teks. For optimal fastener performance, the screwgun should be a minimum of 4 amps and have a RPM range of 0-2000.
2. Adjust the screwgun nosepiece to properly seat the fastener.
3. New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
4. The fastener is fully seated when the head is flush with the work surface.
5. Overdriving may result in torsional failure of the fastener or stripout of the substrate.
6. The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

TEKS Light Duty Steel-To-Steel Applications

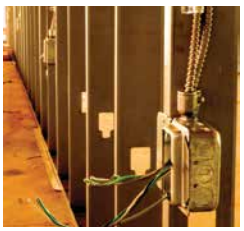
APPLICATIONS

Stitch roof deck and wall panel sidelaps.
HVAC, electrical trim accessories to steel framing.
Residential steel frame construction.
Brick ties to steel framing.
Track to stud and stud splicing.
Hat channel to stud.

APPROVALS/LISTINGS

Factory Mutual (J.I. 2 X 9A2 AM)

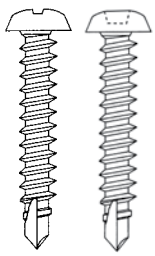
ICC - ESR 1976



SELECTION CHART

TEKS® Fasteners

Finish: Electro-Zinc Plating.

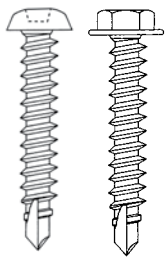


PART NUMBER	REFERENCE NUMBER	DESCRIPTION	HEAD STYLE	DRILL POINT	DRILL & TAP CAPACITY	MAX. MATERIAL ATTACHMENTS	BOX QTY	"X" PAK QTY	APPLICATIONS
2240	2240	8-18 x 1/2"	#2 SP	#2	.036-.100	.205	10,000		- HVAC, electrical trim accessories to steel framing - Residential steel frame construction - Track to stud - Hat channel to stud - Stud splicing
2250	2250	8-18 x 1/2"	MTH	#2	.036-.100	.205	10,000		
2280[X]	2280	8-18 x 5/8"	#2 SP	#2	.036-.100	.330	10,000		
2330[X]	2330[X]	8-18 x 3/4"	#2 SP	#2	.036-.100	.455	10,000	1,000	
2360[X]	2360[XA]	8-18 x 1"	#2 SP	#2	.036-.100	.705	8,000	500	
2220	2220	8-18 x 1/2"	1/4" HWH	#2	.036-.100	.205	10,000		
2310[X]	2310[XA]	8-18 x 3/4"	1/4" HWH	#2	.036-.100	.455	10,000	1,000	
2365	2365[A]	8-18 x 1"	1/4" HWH	#2	.036-.100	.705	8,000		

[P] Available in P/A PAK [X] Available in X PAK

TEKS® Fasteners

Finish: Electro-Zinc Plating.

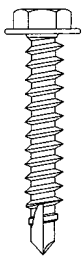


PART NUMBER	REFERENCE NUMBER	DESCRIPTION	HEAD STYLE	DRILL POINT	DRILL & TAP CAPACITY	MAX. MATERIAL ATTACHMENTS	BOX QTY	"X" PAK QTY	APPLICATIONS
2480	2480	10-16 x 3/4"	#2 SP	#3	.036-.175	.325	6,000		- Clips, duct straps, brick ties or accessories to steel framing
2490[X]	2490[X]	10-16 x 1"	#2 SP	#3	.036-.175	.575	5,000	500	
2495[X]	2495[X]	10-16 x 1-1/4"	#2 SP	#3	.036-.175	.825	4,000	250	
2400	2400	10-16 x 1/2"	5/16" HWH	#3	.036-.175	.150	6,000		
2460[X]	2460[X]	10-16 x 3/4"	5/16" HWH	#3	.036-.175	.325	6,000	500	
2510	2510	10-16 x 1"	5/16" HWH	#3	.036-.175	.575	5,000		

[P] Available in P/A PAK [X] Available in X PAK

TEKS® Fasteners

Finish: Climaseal Coating.



PART NUMBER	REFERENCE NUMBER	DESCRIPTION	HEAD STYLE	DRILL POINT	DRILL & TAP CAPACITY	MAX. MATERIAL ATTACHMENTS	BOX QTY	APPLICATIONS
1100 +	1128000	10-16 x 3/4"	5/16" HWH	#3	.036-.175	.325	5,000	- Clips, duct straps, brick ties or accessories to steel framing
1131000 +	1131000	10-16 x 1-1/2"	5/16" HWH	#3	.036-.175	.1075	3,000	
2220CL	2220CL	8-18 X 1/2"	1/4" HWH	#2	.036-.100	.205	10,000	

+ (CL+) Coating

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	-----	-----

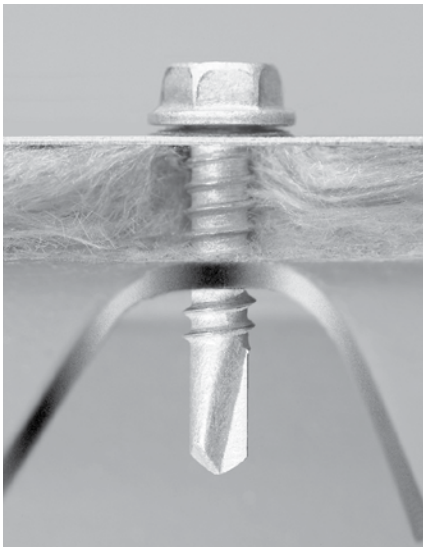
Fastener Values

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® Self-Drilling Fasteners

The Best Point Ever for Speed and Consistency



DESCRIPTION/ADVANTAGES

Medium Duty Steel-To-Steel Applications—

- Point has precise cutting edges to improve drill performance with less effort.
- Non-walking point provides fast material engagement.
- Point to thread design maximizes pullout performance and minimizes backout.
- Drills and taps in the broadest range of applications.
- Climaseal® finish provides excellent corrosion resistance and lower tapping torque.

SPECIFICATIONS

Diameter / Thread Form

10-16
12-14
1/4-14

Head Style

Hex Washer Head
(HWH)

Drill Point

Teks 2

Teks 3

Finish

Type	Kesternich Results (DIN 50018, 2.0L)	Salt Spray Results (ASTM B117)
Electro-zinc (EZ)	3 cycles - 5% or less red rust	48 hours - 5% or less red rust
Climaseal® Coating (CL)	30 cycles - 10% or less red rust	1000 hours - 10% or less red rust
Climaseal®+ Coating (CL+)	Meets or exceeds Kesternich and Salt Spray Results of Climaseal® Coating (CL)	

INSTALLATION INSTRUCTIONS

1. A standard screwgun with a depth sensitive nosepiece should be used to install Teks. For optimal fastener performance, the screwgun should be a minimum of 6 amps and have a RPM range of 0-2500.
2. Adjust the screwgun nosepiece to properly seat the fastener.
3. New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
4. The fastener is fully seated when the head is flush with the work surface.
5. Overdriving may result in torsional failure of the fastener or stripout of the substrate.
6. The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

TEKS Medium Duty Steel-To-Steel Applications

APPLICATIONS

Roof deck to steel framing.

Wall panel to girt.

Duct work to steel framing.

Accessories to steel framing

Clip to steel framing.

Retrofit framing.

APPROVALS/LISTINGS

Factory Mutual (J.I. 2 X 9A2 AM)

ICC - ESR 1976

DRILL POINTS

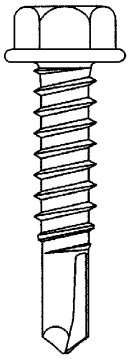
Teks 2

Teks 3

SELECTION CHART

TEKS® Fasteners

Finish: Climaseal Coating.

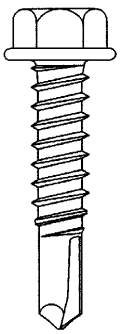


PART NUMBER	REFERENCE NUMBER	DESCRIPTION	HEAD STYLE	DRILL POINT	DRILL & TAP CAPACITY	MAX. MATERIAL ATTACHMENTS	BOX QTY	APPLICATIONS
1420	1134000	12-14 x 3/4"	5/16" HWH	#3	.036-.210	.270	5,000	- Duct work to steel framing - Accessories to steel framing - Clip to steel framing
1136000	1136000 P	12-14 x 1"	5/16" HWH	#3	.036-.210	.520	4,000	
1590 +	1123000	12-14 x 1-1/2"	5/16" HWH	#2	.036-.210	.800	2,500	
1620 +	1140000	12-14 x 2"	5/16" HWH	#3	.036-.210	1.450	2,000	
1820 +	1147000	1/4-14 x 3/4"	3/8" HWH	#3	.036-.210	.270	3,000	- Duct work to steel framing - Accessories to steel framing - Clip to steel framing
1850 +	1149000	1/4-14 x 1"	3/8" HWH	#3	.036-.210	.520	2,500	
1150000 +	1150000	1/4-14 x 1-1/4"	3/8" HWH	#3	.036-.210	.550	2,000	
1890 +	1152000	1/4-14 x 1-1/2"	3/8" HWH	#3	.036-.210	.800	2,000	
1920	1155000 P	1/4-14 x 2"	3/8" HWH	#3	.036-.210	1.450	1,500	
1950 +	1157000	1/4-14 x 3"	3/8" HWH	#3	.036-.210	2.450	1,000	
1304000	1304000	1/4-14 x 4"	3/8" HWH	#3	.036-.210	3.450	500	

+ (CL+) Coating

TEKS® Fasteners

Finish: Electro-zinc Plating.



PART NUMBER	REFERENCE NUMBER	DESCRIPTION	HEAD STYLE	DRILL POINT	DRILL & TAP CAPACITY	MAX. MATERIAL ATTACHMENTS	BOX QTY	"A" PAK QTY	APPLICATIONS
113601	113601	12-14 x 1"	5/16" HWH	#3	.036-.210	.520	4,000		- Duct work to steel framing - Accessories to steel framing - Clip to steel framing
112301	112301	12-14 x 1-1/2"	5/16" HWH	#3	.036-.210	.800	2,500		
114001	114001	12-14 x 2"	5/16" HWH	#3	.036-.210	1.450	2,000		
114701	114701	1/4-14 x 3/4"	3/8" HWH	#3	.036-.210	.210	3,000		
114901 A	114901 A	1/4-14 x 1"	3/8" HWH	#3	.036-.210	.400		100	
115001	115001	1/4-14 x 1-1/4"	3/8" HWH	#3	.036-.210	.650	2,000		
115201 A	115201 A	1/4-14 x 1-1/2"	3/8" HWH	#3	.036-.210	.900		100	
115701	115701	1/4-14 x 3"	3/8" HWH	#3	.036-.210	2.400	1,000		

A Available in A PAK

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

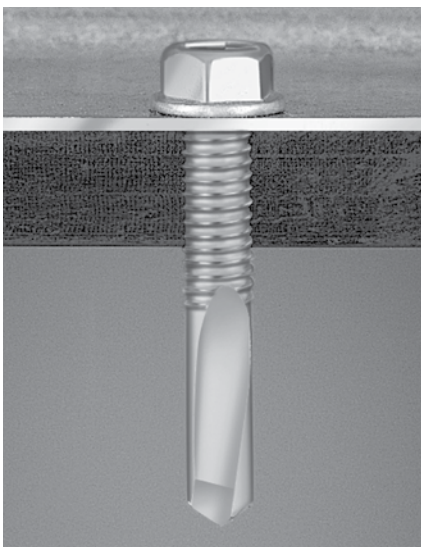
FASTENER (Dia-TPI)	TENSILE (Lbs. Min)	SHEAR (Avg. Lbs. Ultimate)	TORQUE (Min. in Lbs.)
12-14	2778	2000	92
1/4-14	4060	2600	150

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.

ITW Buildex

TEKS® Self-Drilling Fasteners

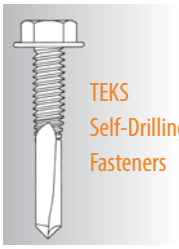
First in Performance!! Over 30 Years of Consistent Drilling



DESCRIPTION/ADVANTAGES

Heavy Duty Steel-To-Steel Applications—

THE ORIGINAL SELF-DRILLERS FOR HEAVY DUTY APPLICATIONS



- Unique double fluted point has precise cutting edges to improve drill performance in 1/4" thru 1/2" steel.
- Engineered for fast drilling and smooth tapping with less effort.
- Climaseal® finish provides excellent corrosion resistance and lower tapping torque.
- Attachments up to 7.2" of material including 1/2" steel.
- 1/4" Diameter has notched threads to reduce tapping torque.

SPECIFICATIONS

Diameter / Thread Form

12-24
1/4-28

Head Styles

Hex Washer Head (HWH)

Drill Point

Teks 4

Teks 5

Finish

Type	Kesternich Results (DIN 50018, 2.0L)	Salt Spray Results (ASTM B117)
Climaseal® Coating (CL)	30 cycles - 10% or less red rust	1000 hours - 10% or less red rust

INSTALLATION INSTRUCTIONS

1. A standard screwgun with a depth sensitive nosepiece should be used to install Teks. For optimal fastener performance, the screwgun should be a minimum of 6 amps and have a RPM range of 0-2500. (Maximum 1800 RPM is recommended for Teks 5 fasteners)
2. Adjust the screwgun nosepiece to properly seat the fastener.
3. New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
4. The fastener is fully seated when the head is flush with the work surface.
5. Overdriving may result in torsional failure of the fastener or stripout of the substrate.
6. The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

TEKS Heavy Duty Steel-To-Steel Applications

APPLICATIONS

Metal deck to structural steel or bar joist.

Clips to structural steel or bar joist.

Liner panels to structural steel or bar joist.

Accessories to structural steel or bar joist.

Longer length fasteners can be used in retrofit clip and sheet applications.

APPROVALS/LISTINGS

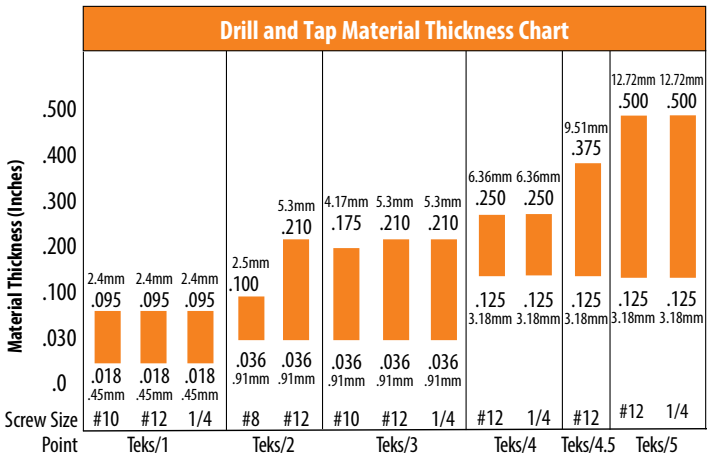
Factory Mutual (J.I. 2 X 9A2 AM)

ICC - ESR 1976

DRILL POINTS

Teks 4

Teks 5

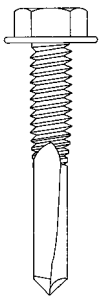


*Drill & tap capacities may vary with special feature designs. Refer to product reports for specifics.

SELECTION CHART

TEKS® Fasteners

Finish: Climaseal Coating.



PART NUMBER	REFERENCE NUMBER	DESCRIPTION	HEAD STYLE	DRILL POINT	DRILL & TAP CAPACITY	MAX. MATERIAL ATTACHMENTS	BOX QTY	"P/X" PAK QTY	APPLICATIONS
1070057	1070057	12-24 x 1-1/2"	5/16" HWH	#5	.125-.500	.625	2,000		- Metal deck, clips, linear panels or accessories to structural steel or bar joist
1650[P]	1088000[P]	12-24 x 7/8"	5/16" HWH	#4	.125-.250	.325	5,000	100	
1670[P]	1006000[P]	12-24 x 1-1/4"	5/16" HWH	#5	.125-.500	.375	4,000	100	
1680[X]	1070000[X]	12-24 x 1-1/2"	5/16" HWH	#5	.125-.500	.625	2,500	100	
1690[P]	1072000[P]	12-24 x 2"	5/16" HWH	#5	.125-.500	1.125	2,000	100	
1006057	1006057	12-24 x 1-1/4"	5/16" HWH	#5	.125-.500	.375	2,000		
1074000	1074000	1/4-28 x 3"	5/16" HWH	#5	.125-.500	2.150	1,000		- Retrofit clip and sheet applications
1075000	1075000	1/4-28 x 4"	5/16" HWH	#5	.125-.500	3.150	500		
1641000	1641000	1/4-28 x 5"	3/8" HWH	#5	.125-.500	4.150	250		
1431000	1431000	1/4-28 x 6"	3/8" HWH	#5	.125-.500	5.150	250		
1590000	1590000	1/4-28 x 8"	3/8" HWH	#5	.125-.500	7.150	150		

[P] Available in P PAK [B] Available in X PAK

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: Teks 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.

ITW Buildex

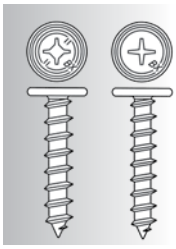
TEKS® Self-Drilling Fasteners

Low Profile Architectural Metal Roof Clip Fasteners

DESCRIPTION/ADVANTAGES

Low Profile Architectural Metal Roof Clip Fastener—

INCORPORATES THE ITW EXCLUSIVE PHILLIPS SQUARE-DRIV® ANTI-CAM-OUT SYSTEM



- #12 diameter utilizes the ITW exclusive Phillips Square-Driv ®with patented interlocking components system.
  - Excellent installation stability.
  - Extended bit driver life.
  - Keeps the driver securely mated to the fastener during installation.
  - Hands-free installation.
- Fasteners are finished with a corrosion resistant coating. Teks 3 fasteners are available with Gray Spex™ coating.
- Sharp convex drill point has precise cutting edges to improve drill performance with less effort.
- Low profile pancake head style ensures proper installation of metal roof panels.

SPECIFICATIONS

Diameter / Thread Form
12-14

Head Styles

Phillips Square-Driv
Pancake (PSP)

Drill Point Teks 3

Finish

Type	Kesternich Results (DIN 50018, 2.0L)	Salt Spray Results (ASTM B117)
Grey Specx	15 cycles - 5% or less red rust	300 hours - 10% or less red rust

APPLICATIONS

Low profile architectural metal roof clips to steel purlin.

Low profile architectural metal roof clips to wood supports.

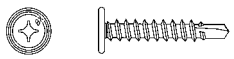
INSTALLATION INSTRUCTIONS

1. A standard screwgun with a depth sensitive nosepiece should be used to install Teks. For optimal fastener performance, the screwgun should be a minimum of 6 amps and have a RPM range of 0-2500.
2. Adjust the screwgun nosepiece to properly seat the fastener.
3. The fastener is fully seated when the head is flush with the work surface.
4. Overdriving may result in torsional failure of the fastener or stripout of the substrate.
5. The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.
6. New magnetic sockets must be correctly set before use. Remove chip build-up as needed.

SELECTION CHART

TEKS® Fasteners

Finish: Gray Spex Coating.



PART NUMBER	REFERENCE NUMBER	DESCRIPTION	HEAD STYLE	DRILL POINT	DRILL & TAP CAPACITY	MAX. MATERIAL ATTACHMENTS	BOX QTY	APPLICATIONS
1575553	1575553	12-14 x 1"	#2 PSD	#3	.036-210	.550	4,000	- Low profile architectural metal roof clip to steel purlin

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
#12	3	139	194	250	369	450	598	915	1500

Shear Values
(Average Lbs. Ultimate)

FASTENER		STEEL GAUGE (Lapped)			
DIA.	PT	20 GAUGE	18 GAUGE	16 GAUGE	14 GAUGE
#12	3	923	1279	1657	1933

Fastener Values

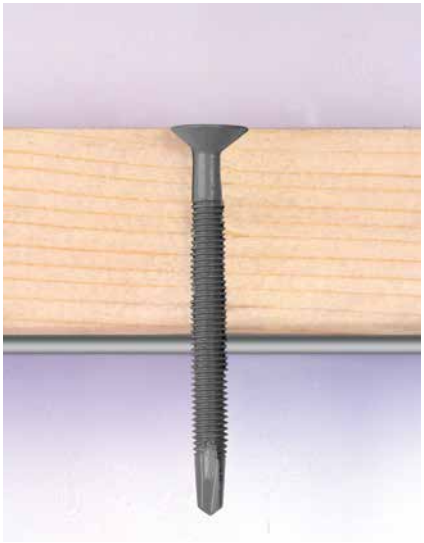
FASTENER (Dia-TPI)	PT	TENSILE (Lbs. Min.)	SHEAR (Avg. Lbs. Ultimate)	TORQUE (Min. in Lbs.)
12-14	3	2652	2000	92

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.

ITW Buildex

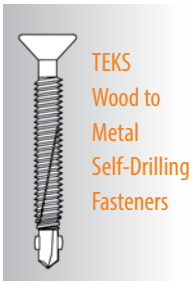
TEKS® Wood to Metal Fasteners

No Pre-Drilling, Fast, Efficient Attachment of Wood-To-Metal



DESCRIPTION/ADVANTAGES

Wood-To-Metal Applications—



TEKS Wood to Metal Self-Drilling Fasteners

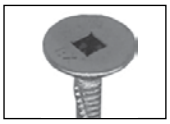
- Point has precise cutting edges to improve drill performance with less effort.
- Special winged fasteners ream a hole in wood preventing thread engagement during drilling.
- Wafer head design has a large bearing surface ideal for plywood.
- Flat head design countersinks and seats flush in wood.
- Gray Spex™ finish provides excellent corrosion resistance and lower tapping torque.
- Compatible with ACQ treated wood.

SPECIFICATIONS

Diameter / Thread Form

10-24
12-14
1/4-20

Head Styles

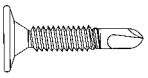


Socket Wafer Head (SW)

Philips Flat Head (PFH)

Drill Point

Teks 3



Teks 4

Finish

Type	Kesternich Results (DIN 50018, 2.0L)	Salt Spray Results (ASTM B117)
Electro-zinc (EZ)	3 cycles - 5% or less red rust	48 hours - 5% or less red rust
Grey Specx	15 cycles - 5% or less red rust	300 hours - 10% or less red rust

INSTALLATION INSTRUCTIONS

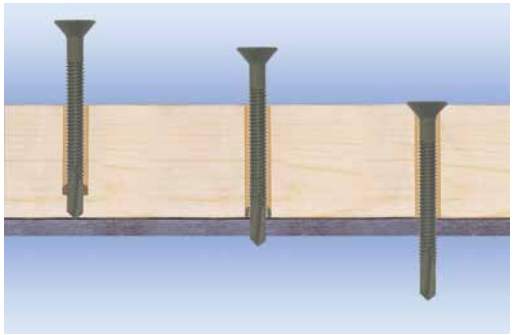
1. A standard screwgun with a depth sensitive nosepiece should be used to install Teks. For optimal fastener performance, the screwgun should be a minimum of 6 amps and have an RPM range of 0-2500.
2. Adjust the screwgun nosepiece to properly seat the fastener.
3. Worn or damaged bit tip should be replaced.
4. The fastener is fully seated when the head is flush with the work surface.
5. Overdriving may result in torsional failure of the fastener or stripout of the substrate.
6. The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.
7. All #10 diameter "Winged" parts must be driven into a minimum of 16 GA steel thickness.
8. All 1/4 and #12 diameter "Winged" parts must be driven into a minimum of 1/8" steel in order to break the wings consistently.

APPLICATIONS

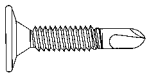
Plywood roof and floor sheet to steel frames.

2 x 4 headers to steel frames.

Plywood fascia to steel frames.

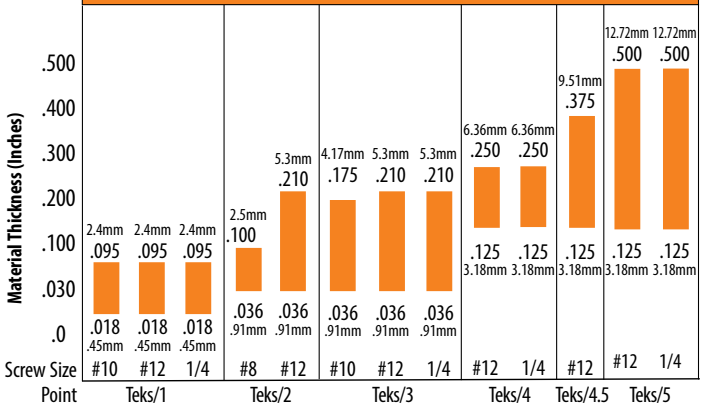


DRILL POINTS

Teks 3 

Teks 4 

Drill and Tap Material Thickness Chart



*Drill & tap capacities may vary with special feature designs. Refer to product reports for specifics.

SELECTION CHART

TEKS® Fasteners

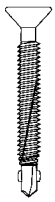
Finish: Electro-zinc Plating. With Wings.

PART NUMBER	REFERENCE NUMBER	DESCRIPTION	HEAD STYLE	DRILL POINT	DRILL & TAP CAPACITY	WOOD ATTACHMENT RANGE	BOX QTY	"P" PAK QTY	"X" PAK QTY	APPLICATIONS
21730[P]	21730[P]	12-24 x 2"	#3 SW	#4	.125-.250	1/4" - 1"	2,000	100		- Plywood, 2 x 4's to steel framing
21750	21750[P]	12-24 x 2-1/2"	#3 SW	#4	.125-.250	1/4"-1-1/2"	1,500		100	
21751[P]	21751[P]	12-24 x 3"	#3 SW	#4	.125-.250	1/4"-2"	1,000		100	

[P] Available in P PAK [X] Available in X PAK

TEKS® Fasteners

Finish: Gray Spex Coating. With Wings.



PART NUMBER	REFERENCE NUMBER	DESCRIPTION	HEAD STYLE	DRILL POINT	DRILL & TAP CAPACITY	WOOD ATTACHMENT RANGE	BOX QTY	APPLICATIONS
1980	1096000	1/4-20 x 3"	#3 PFH	#4	.125-.250	3/4"-2"	1,000	- Plywood, 2 x 4's to steel framing
1092057	1092057	12-24 x 2-1/4"	#3 PFH	#4	.125-.250	3/4"- 1-3/8"	2,000	
1094056	1094056	12-24 x 2-3/4"	#3 PFH	#4	.125-.250	3/4"-2-5/8"	1,600	

TEKS Wood-To-Metal 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	1/4
#10-16	3	-----	208	266	299	499	708	967	1474	-----	-----
#10-24	3	-----	-----	-----	334	495	702	900	1570	3865	4101
#12	4	-----	-----	-----	-----	-----	-----	-----	1508	4297	-----
1/4	4	-----	-----	-----	-----	-----	-----	-----	1803	-----	-----

Shear Values
(Average Lbs. Ultimate)

FASTENER		STEEL GAUGE (Lapped)					
DIA.	PT	20	18	16	14	12	1/8
#10	3	728	1266	1540	1522	-----	-----
#12	4	-----	-----	-----	-----	2048	2030
1/4	4	-----	-----	-----	-----	2650	2820

Fastener Values

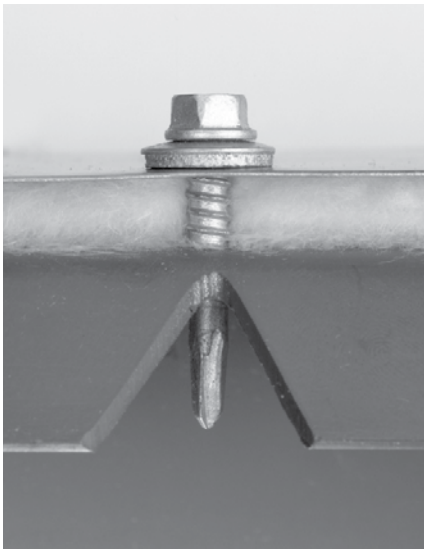
FASTENER (Dia-TPI)	TENSILE (Lbs. Min)	SHEAR (Avg. Lbs. Ultimate)	TORQUE (Min. in Lbs.)
10-16	1936	1400	61
10-24	2702	1500	65
12-24	3165	2200	150
1/4-20	3860	2700	168

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.

ITW Buildex

TEKS® with Bonded Washer

For Weather-Tight Sealing of Roof and Wall Applications



DESCRIPTION/ADVANTAGES

Metal Roof and Wall Applications—

- Vulcanized bonding of washer eliminates separation of EPDM from the metal backing.
- Dual sealing bonded washer prevents leaks.
- Climaseal® finish provides excellent corrosion resistance and lower tapping torque.
- Point has precise cutting edges to improve drill performance with less effort.
- Point to thread design maximizes pullout performance and minimizes backout.

SPECIFICATIONS

Diameter / Thread Form

10-16
12-14
12-24
1/4-14
1/4-28

Head Styles

Hex Washer Head with Bonded Washer(HWH)

Washer Style Galvanized (G-90)

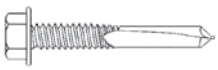
Drill Point

Teks 1

Teks 2

Teks 3

Teks 5



Finish

Type	Kesternich Results (DIN 50018, 2.0L)	Salt Spray Results (ASTM B117)
Climaseal® Coating (CL)	30 cycles - 10% or less red rust	1000 hours - 10% or less red rust
Climaseal®+ Coating (CL+)	Meets or exceeds Kesternich and Salt Spray Results of Climaseal® Coating (CL)	

INSTALLATION INSTRUCTIONS

1. A standard screwgun with a depth sensitive nosepiece should be used to install Teks. For optimal fastener performance, the screw gun should be a minimum of 6 amps and have an RPM range of 0-2500.
2. New magnetic sockets must be correctly set before use Remove chip build-up as needed.
3. Adjust the screwgun nosepiece to properly seat the fastener.
4. Overdriving may result in torsional failure of the fastener or stripout of the substrate.
5. The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

TEKS Metal Roof and Wall Applications

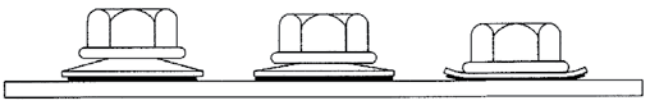
APPLICATIONS

Roof panels to purlin or bar joist.

Wall panels to girt.

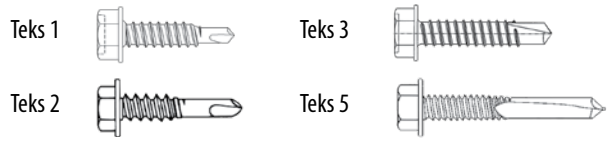
Mansard panel to structural.

PROPERLY SEATED WASHERS

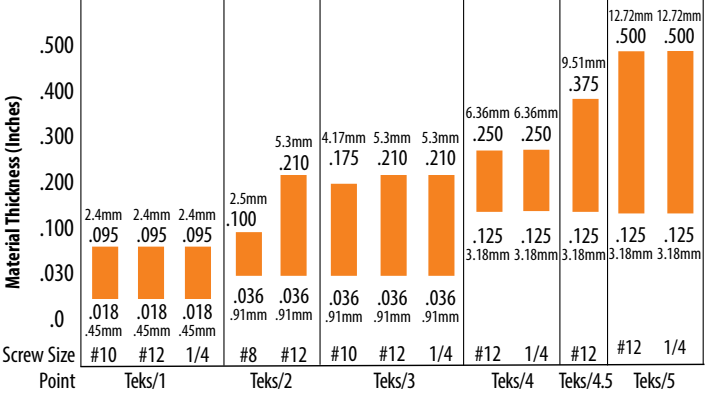


Underdriven Correctly Driven Overdriven

DRILL POINTS



Drill and Tap Material Thickness Chart

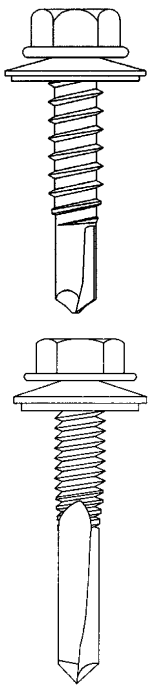


*Drill & tap capacities may vary with special feature designs. Refer to product reports for specifics.

SELECTION CHART

TEKS® w/Bonded Washer

Finish: Climaseal Coating.



PART NUMBER	REFERENCE NUMBER	DESCRIPTION	HEAD STYLE	WASHER DIAMETER	DRILL POINT	DRILL & TAP CAPACITY	MAX. MATERIAL ATTACHMENTS	BOX QTY	APPLICATIONS
1005000 +	1005000	10-16 x 3/4"	5/16" HWH	9/16"	#3	.036-.175	.205	3,000	- Brick tie to steel framing - Mansard panel to steel framing - Roof panel to purlin - Stitch roof
1420W +	1009000	12-14 x 3/4"	5/16" HWH	9/16"	#3	.036-.210	.150	3,000	
1490W +	1011000	12-14 x 1"	5/16" HWH	9/16"	#3	.036-.210	.400	3,000	
1590W +	1404000	12-14 x 1-1/2"	5/16" HWH	9/16"	#2	.036-.210	.680	2,000	
1620W +	1016000	12-14 x 2"	5/16" HWH	9/16"	#3	.036-.210	1.330	1,500	
1790W +	1416000	1/4-14 x 7/8"	5/16" HWH	9/16"	#1	.018-.095	.260	3,000	
1850W +	1160000	1/4-14 x 1"	3/8" HWH	9/16"	#3	.036-.210	.280	2,500	
1890W		1/4-14 x 1-1/2"	3/8 HWH	9/16	#3	.036-.210	.800	1,500	
1920W	1021000	1/4-14 x 2"	3/8" HWH	9/16"	#3	.036-.210	1.280	1,000	
1670W	1000000	12-24 x 1-1/4"	5/16" HWH	9/16"	#5	.125-.500	.255	2,500	
1680W	1001000	12-24 x 1-1/2"	5/16" HWH	9/16"	#5	.125-.500	.505	2,000	
1690W	1002000	12-24 x 2"	5/16" HWH	9/16"	#5	.125-.500	1.005	1,500	
1003000	1003000	1/4-28 x 3"	5/16" HWH	9/16"	#5	.125-.500	2.030	1,000	
1647000	1647000	1/4-28 x 5"	3/8" HWH	3/4"	#5	.125-.500	4.030	250	

+ (CL+) Coating

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	1/4
#10	3	124	208	266	299	499	708	967	1474	-----	-----
#12	2	156	243	283	375	605	848	1181	1856	3520	-----
	3	142	211	289	341	551	757	1063	1631	2998	-----
#12	4	-----	-----	-----	-----	-----	-----	-----	1532	3485	3844
	4.5	-----	-----	-----	-----	-----	-----	-----	1508	3865	4104
	5	-----	-----	-----	-----	-----	-----	-----	1527	3701	3999
1/4	1	208	329	428	562	800	1151	-----	-----	-----	-----
	3	141	231	293	346	613	880	1145	1877	4550	-----
	5	-----	-----	-----	-----	-----	607	918	1507	3300	5059

Shear Values
(Average Lbs. Ultimate)

FASTENER		STEEL GAUGE (Lapped)									
DIA.	PT	26	24	22	20	18	16	14	12	1/8	1/4
#10	3	-----	445	526	728	1266	1540	1552	-----	-----	-----
#12	2	365	600	623	898	1370	1758	2138	-----	-----	-----
	3	-----	-----	-----	769	1358	1620	1970	1986	-----	-----
#12	4	-----	-----	-----	-----	-----	-----	-----	2048	2030	-----
	4.5	-----	-----	-----	-----	-----	-----	-----	2641	2887	-----
	5	-----	-----	-----	-----	-----	-----	-----	2650	2700	-----
1/4	1	511	849	885	1244	1764	-----	-----	-----	-----	-----
	3	-----	-----	-----	930	1442	2100	2584	2650	-----	-----
	5	-----	-----	-----	-----	-----	1597	2005	2350	2792	3310

Fastener Values

FASTENER (Dia-TPI)	TENSILE (Lbs. Min.)	SHEAR (Avg. Lbs. Ultimate)	TORQUE (Min. in Lbs.)
10-16	1936	1400	61
12-14	2778	2000	92
12-24	3020	2100	100
1/4-14	4060	2600	150
1/4-28	5577	3310	234

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.

ITW Buildex

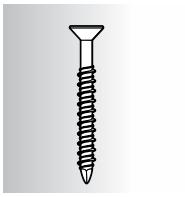
TAPCON®
Concrete and Masonry Anchors

Tapcon®

Advanced Threadform Technology™
Easier to install–less torque required!

DESCRIPTION/ADVANTAGES

Light-To-Medium Duty Masonry Applications—



The "original masonry" anchor that cuts its own threads into concrete, brick, or block. Maximum performance is achieved because the Tapcon Anchor, the Condrive Installation Tool, and the carbide-tipped Tapcon Drill Bits are designed to work as a system. It is essential to use the Condrive tool and the correct drill bit to assure consistent anchor performance.

ADVANTAGES

- Fast installation ... drill a hole ... drive an anchor.
- Packaged with one Tapcon "close tolerance" masonry drill bit per 100 anchors. Also available in bulk packaging.
- Available in 3/16" diameter up to 4" in length and 1/4" diameter up to 6" in length.
- Compatible for use in ACQ treated wood.
- Replaces small diameter expansion anchors, plugs and screws in light to medium duty applications.
- No need to pre-spot holes ... and no inserts are required.
- Reversible and removable ... can be installed close to an edge.

Tapcon Anchors

Hex Head style on Tapcon Anchors is available for majority of fixture anchoring needs

Climaseal™ Coating is standard on all Tapcon anchors to provide extended corrosion resistance

Phillips Flat Head style is available when flush seating is necessary in countersink applications

Advanced Threadform cuts into masonry materials for greater pullout values

Lengths of Tapcon Anchors range from 1-1/4" to 4" in 3/16" and up to 6" in 1/4" diameters.

Nail-Type Point guides the anchor into the pre-drilled hole. Excellent for wood to concrete applications

SPECIFICATIONS

Diameter	3/16" and 1/4"	**Head Style**	Flat and Hex Head
Thread Form	Advanced Threadform Technology®	**Point Type**	Nail
		Finish	Blue Climaseal®

APPLICATIONS

Electrical junction boxes and conduit clips to masonry.

Wood headers and furring strips to masonry

HVAC strapping to masonry.

Plywood backer boards to masonry.

Exterior insulation systems to masonry.

INSTALLATION TOOL GUIDELINES

Tapcon Condrive Pro Installation Kit – A one-tool system engineered to work with all impact drivers, rotary hammers and hammer drills, the Tapcon Pro Installation Kit can drill and drive. The Condrive is designed to speed up anchor installation and enhance jobsite productivity. It features recessed hex drivers designed to significantly reduce over-torquing, head snapping and strip outs, allowing PROs to anchor with confidence and efficiency the first time, every time.

PREPARATION

1. **Place correct Tapcon® drill bit in drill adapter and tighten set screw with hex key (included). For rotary hammer begin at Step 3.**
2. **Secure drill adapter into 3/8" – 1/2" chuck of hammer drill or into 1/4" impact hammer**
3. **Attach appropiate hex driver or Phillips bit to end of sleeve.**

DRILL

4. **Drill hole 1/4" deeper than depth of anchor embedment. (Min. embedment 1"). Remove dust from hole.**

SLIDE

5. **Slide sleeve over drill bit and snap into drill adapter**

DRIVE

6. **Insert anchor into the end of the sleeve, position fixture to be fastened and drive the Tapcon®**

Buildex Condrive Tools are designed to specifically install Tapcon Anchors and to fit standard hammer drills.

APPROVALS/LISTINGS

ICC-ESR 1671 Masonry
ICC-ESR 2202 Concrete

INSTALLATION STEPS

Read instructions before using (installation)!

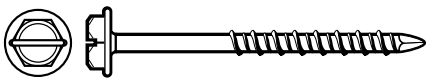
WARNING: If there are any questions concerning proper installation, applications or appropriate use of this product, please call our Technical Services Department at 1-800-899-7890. Failure to follow these instructions can result in serious personal injury.

1. **Select proper fastener – diameter / head style / length**
   a) **Use selection chart to choose proper length.**
2. **Drill Hole – use selection chart to determine drill bit length and depth of hole**
   a) **Choose appropriate drill bit based upon diameter of Tapcon Anchor.**
   b) **Drill hole minimum ¼" deeper than Tapcon Anchor to be embedded.**
   Minimum anchor embedment: 1"
   Maximum anchor embedment: 1-3/4"
3. **Drive Anchor**

WARNING: Failure to wear safety glasses with side shields can result in serious personal injury. Always wear ANSI compliant eye protection (ANSI Z87.1-2003).

WARNING: Using the wrong size drill bit will affect performance values and may cause failure.

HEAD STYLES



3/16" diameter has a 1/4" slotted hex washer head (HWH)

1/4" diameter has a 5/16" slotted hex washer head (HWH)

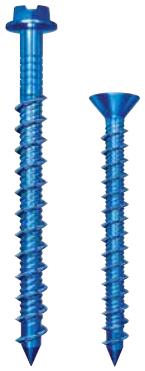
3/16" diameter uses a #2 phillips flat head (PFH)

1/4" diameter uses a #3 phillips flat head (PFH)

Tapcon Concrete and Masonry Anchors

SELECTION CHART

Tapcon Anchors — 3/16" Diameter

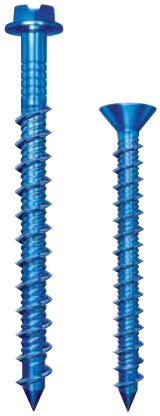


PART NUMBER 1/4" HWH	PART NUMBER #2 PFH	DESCRIPTION	FIXTURE THICKNESS	STRAIGHT SHANK DRILL BIT PART NUMBER	DRILL BIT DESCRIPTION	BOX QTY	CASE QTY	BULK QTY
3010 BK	3110 BK	3/16" x 1-1/4"	0 - 1/4"	7200	5/32" x 3-1/2"	100	1000	3,000
3020 BK	3120 BK	3/16" x 1-3/4"	0 - 3/4"	7200	5/32" x 3-1/2"	100	1000	3,000
3030 BK	3130 BK	3/16" x 2-1/4"	1/2" - 1-1/4"	7210	5/32" x 4-1/2"	100	1000	2,000
3040 BK	3140 BK	3/16" x 2-3/4"	1" - 1-3/4"	7210	5/32" x 4-1/2"	100	1000	1,500
3060 BK	3160 BK	3/16" x 3-1/4"	1-1/2" - 2-1/4"	7220	5/32" x 5-1/2"	100	1000	1,000

Tapcon Anchors must be installed using all Buildex system components (Tapcon Anchors, Condrive Tools and Tapcon Drill Bits) in order to qualify for ITW Buildex system support.

BK Available in Bulk Pack Qty

Tapcon Anchors — 1/4" Diameter



PART NUMBER 5/16" HWH	PART NUMBER #3 PFH	DESCRIPTION	FIXTURE THICKNESS	STRAIGHT SHANK DRILL BIT PART NUMBER	DRILL BIT DESCRIPTION	BOX QTY	CASE QTY	BULK QTY
3210 BK	3310 BK	1/4" x 1-1/4"	0 - 1/4"	7230	3/16" x 3-1/2"	100	1000	3,000
3220 BK	3320 BK	1/4" x 1-3/4"	0 - 3/4"	7230	3/16" x 3-1/2"	100	1000	2,000
3230 BK	3330 BK	1/4" x 2-1/4"	1/2" - 1-1/4"	7240	3/16" x 4-1/2"	100	1000	1,000
3240 BK	3340 BK	1/4" x 2-3/4"	1" - 1-3/4"	7240	3/16" x 4-1/2"	100	1000	1,000
3250 BK	3350 BK	1/4" x 3-1/4"	1-1/2" - 2-1/4"	7250	3/16" x 5-1/2"	100	1000	750
3270 BK		1/4" x 4"	2-1/4" - 3"	7250	3/16" x 5-1/2"	100	500	750
3280 BK	3380	1/4" x 5"	3-1/4" - 4"	7260	3/16" x 6-1/2"	100	500	500
3290 BK	3390	1/4" x 6"	4-1/4" - 5"	7270	3/16" x 7-1/2"	100	100	250

Tapcon Anchors must be installed using all Buildex system components (Tapcon Anchors, Condrive Tools and Tapcon Drill Bits) in order to qualify for ITW Buildex system support.

BK Available in Bulk Pack Qty

Accessories

PART NUMBER	DESCRIPTION	BOX QTY
7001	Condrive Pro Installation Kit	4
BX51902	5/32 x 4-1/2 Tapcon Drill Bit	10
BX51906	3/16 x 4-1/2 Tapcon Drill Bit	10
BX51910	5/32 x 3-1/2 Tapcon Drill Bit	10
BX51912	3/16 x 3-1/2 Tapcon Drill Bit	10
BX51914	3/16 x 5-1/2 Tapcon Drill Bit	10
BX51916	5/32 x 5-1/2 Tapcon Drill Bit	10
11491C	3/16 x 7 SDS Plus Tapcon Drill Bit	10
11492C	5/32 x 7 SDS Plus Tapcon Drill Bit	10

Tapcon SDS Plus Drill Bits are specially designed to be compatible with Condrive Pro Installation Kit. Use the Tapcon bits and Condrive Pro together to install Tapcon anchors for optimal performance.

CONDRIVE PRO ADVANTAGES

- Works with all Impact Drivers, Rotary Hammers, Hammer Drills, Tapcon SDS and Carbide Straight Shank Bits.
- Fast and Easy: only one tool needed to drill and drive
- Recessed Hex Driver reduces overtorquing, head snapping, and spinouts
- Fits fully assembled in carrying pouch for easy storage

PERFORMANCE TABLES

Tension Values
(In Normal-Weight Concrete Lbs.)

ANCHOR DIAMETER	EMBEDMENT DEPTH	CONCRETE STRENGTH		
		2000 PSI	4000 PSI	5000 PSI
3/16	1"	600	650	800
	1-1/2"	1090	1090	1220
	1-3/4"	1450	1460	1730
1/4	1"	750	800	950
	1-1/2"	1380	1820	2170
	1-3/4"	2020	2380	2770

Tension and Shear Values
(In CMU 1" Embedment)

ANCHOR DIAMETER	TENSION (Lbs.)		SHEAR (Lbs.)	
	LIGHT WEIGHT	MEDIUM WEIGHT	LIGHT WEIGHT	MEDIUM WEIGHT
3/16	220	340	400	730
1/4	250	500	620	1000

For minimum edge distance and spacing distance, please refer to the ICC-ES report or Miami-Dade report for this product. Lightweight and medium-weight Concrete Masonry Units (CMU) were defined by ASTM C 90.

Shear Values
(In Normal-Weight Concrete Lbs.)

ANCHOR DIAMETER	EMBEDMENT DEPTH	CONCRETE STRENGTH		
		2000 PSI	4000 PSI	5000 PSI
3/16	1"	720	720	860
	1-1/2"	860	860	860
	1-3/4"	870	990	990
1/4	1"	900	1360	1440
	1-1/2"	1200	1380	1670
	1-3/4"	1670	1670	1670

NOTE: Indicated tension and shear failure values were obtained in tests conducted at CEL Consulting. Designated holding power depends on the quality of the masonry material, depth of embedment and proper hole size. These figures are offered only as a guide and are not guaranteed in any way by Illinois Tool Works Inc. The figures indicate **average ultimate tension and shear failure values**. A safety factor of 4:1 or 25% of ultimate value is generally accepted as a safe working load. However, reference should always be made to applicable codes for the specific safe working ratio. All values are based on close tolerance holes drilled with Buildex Tapcon® carbide drill bits. Performance of the Tapcon anchor may vary in extremely hard concrete aggregates. Consult your Buildex representative for further information.

As in the case with all applications, Buildex can only suggest typical fasteners for typical applications and that the connection design is the sole responsibility of the Building Design Engineer, Architect or otherwise responsible person charged with the design of the connection. For further product information, please contact the nearest Authorized Buildex Distributor or the Buildex Technical Service Department at 1-800-323-0720.

E-Z Drywall Anchors

The Original! Fast and Easy Self-Drilling Anchors

DESCRIPTION/SUGGESTED SPECIFICAITONS

Drywall Anchor Applications—

E-Z Ancor Self-Drilling Anchor

The E-Z Ancor is a one-piece self-drilling anchor designed for optimal holding performance in gypsum wallboard. Available in zinc or high strength engineered plastic (non-conductive). Ideal anchor for 3/8", 1/2" and 5/8" gypsum wallboard.

ADVANTAGES

- No hole preparation necessary; pre-drills own small precise hole in gypsum wallboard.
- Replaces plastic plugs and toggles.
- Deep thread design provides strong engagement in 3/8" 1/2" and 5/8" gypsum wallboard.
- Installs quickly and easily with a phillips screw-driver or square drive bit.
- Full range of anchors to cover all wall fastening applications.
- Available in corrosion resistant, non-conductive white nylon.
- Can be easily backed-out.
- Low profile head.
- Single point designs for clean cutting installation.

E-Z Ancors

E-Z Mini | Mini Twist-N-Lock | Stud Solver | E-Z Ancor | E-Z Twist-N-Lock | E-Z Toggle

APPLICATIONS

- Electrical Fixtures
- Thermostats
- HVAC Fixtures
- Plumbing Fixtures
- Bathroom Accessories
- Shelving and Supports
- Mirrors
- Picture Frames
- Brackets
- Plaques and Awards
- Closet Organizers
- Coat Racks
- Curtain Rods
- Signs
- Bulletin Boards
- Control Systems
- Decorative Wall Hangings
- Office Material Holders
- Smoke Detectors
- Clocks
- Kitchen Accessories
- Doorbells
- Telecommunications Equipment
- Chalk Boards
- Remote Control Boxes

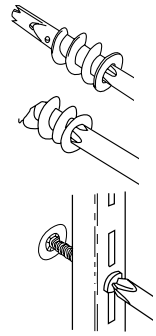
SPECIFICATIONS

Material Zinc and Nylon

Drilling Capacity 3/8", 1/2" and 5/8" gypsum wallboard

INSTALLATION INSTRUCTIONS

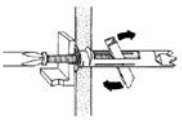
LIGHT DUTY & MEDIUM DUTY E-Z ANCORS



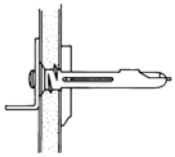
1. Place #2 Phillips screwdriver into recess of E-Z Zinc, E-Z Lite, E-Z Mini, E-Z Stud Solver, Twist-N-Lock, or E- Z Plastic Plus.
2. Press into drywall while turning the anchor clockwise until it is seated flush with wall.
3. Place fixture in position over installed E-Z Zinc, E-Z Lite, E-Z Mini , E-Z Stud Solver, Twist-N-Lock, or Plastic Plus. Insert screw with screw driver. Tighten fixture in place.

HEAVY DUTY E-Z TOGGLE

1. Using a #2 Phillips screwdriver, drill the E-Z Toggle Anchor into drywall until the head of the anchor is seated flush.



2. To "set" the clamp behind the drywall, place the mounting screw into the anchor and push or tap firmly until approximately 1" of screw is protruding (do not rotate). Then remove the screw.



3. Place fixture over E-Z Toggle, insert screw and continue to turn until fastened tightly (for example when attaching a 1/2" thick fixture, it will require approx. 23 full rotations of the screwdriver to fully tighten the fixture).

E-Z Mini | Mini Twist-N-Lock | Stud Solver | E-Z Ancor | E-Z Twist-N-Lock | E-Z Toggle

PERFORMANCE TABLE

E-Z Ancors

DRYWALL THICKNESS	HOLDING WEIGHT (lbs.) Gypsum Board Thickness		
	3/8"	1/2"	5/8"
EZ Mini and Mini Twist-N-Lock	30	40	50
E-Z Anchor and EZ Stud Solver	40	50	75
Twist-N-Lock	65	75	80
E-Z Toggle	70	85	150

These performance values are averages obtained under laboratory conditions. Note that these values will change depending on age, moisture content and surface treatment of the drywall (gypsum) material. Appropriate safety factors should be applied to these values for design purposes.

SELECTION CHART

E-Z Ancors

PART NUMBER WITH SCREWS	PART NUMBER WITHOUT SCREWS	DESCRIPTION	MATERIAL	MAXIMUM FIXTURE THICKNESS	ACCOMMODATES SHEETS METAL SCREW SIZE	BOX QTY	CASE QTY	BULK QTY
6411L	6400L[S]	Mini Twist-N-Lock	Nylon	3/4"	#6	100	1000	10,000
6411M	6400M	E-Z Mini	Zinc	3/4"	#6, #7, #8	100	1000	
6411	6400	E-Z Ancor	Zinc	3/4"	#6, #7, #8	100	1000	
6511	6500	EZ Stud Solver	Zinc	3/4"	#8	100	1000	
6411P	6400P[B]	E-Z Twist N Lock	Nylon	3/4"	#8	100	1000	4,500
6401[B]	-	E-Z Toggle	Zinc	1/2"	#8	100	1000	

[B] Available in Bulk Pack Qty

ITW Buildex

ROCK-ON. BACKER-ON. CEMENT BOARD SCREWS

Cement Board and Fiber Cement Backerboard Fasteners

DESCRIPTION

Patented Cement Boards Screws with Serrated Head for Flush Seating

Backer-On® cement screws are designed for attaching Hardie-Backer® cement board and Rock-On® cement board screws are designed for attaching Durock® cement board to wood or light guage steel studs. Patented design and ANSI compliant making these perfect for use in high moisture areas such as bathrooms and kitchen.

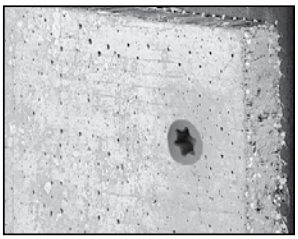
ADVANTAGES

- Serrated head designed to drive flush even at an angle
- Star drive with T-25 bit and Stikfit™ for easy one-handed installation and eliminates cam-outs
- Hi-Lo threads for Rock-On and Single Threads for Backer-On are designed for quick and smooth drives into cement boards
- Sharp points offer immediate pick-up and eliminates pre-drilling
- Patented design allows attaching close to edge on cement board, drastically reducing fractures or blow outs
- Corrosion resistance with Climacoat finish will prevent rust from bleeding into tile
- Comply with ANSI A108.11 standards as specified by cement board manufacturers – alternative options such as roofing nails and generic drywall screws are typically not specified by manufacturers nor are they ANSI compliant

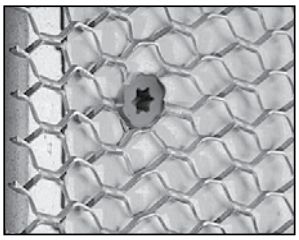
INSTALLATION INSTRUCTIONS

1. A standard screwgun with a depth sensitive nosepiece should be used to install cement board fasteners. For optimal fastener performance, use a screwgun with adjustable depth of drive and variable RPM (0-2000).
2. Adjust the screwgun nosepiece to properly seat the fastener.
3. Use enclosed T-25 Star Drive bit to drive in the cement board - worn or damaged bit tips should be replaced.
4. The fastener is fully seated when the head is flush with the work surface.
5. Overdrivng may result in torsional failure of the fastener or stripout of the substrate.
6. Steel stud attachment - Fastener must penetrate a minimum 3/8" beyond steel for optimal performance"
7. Wood stud attachment - Fastener must penetrate 1" info wood stud or beyond plywood for optimal performance"

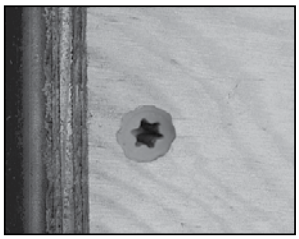
APPLICATIONS



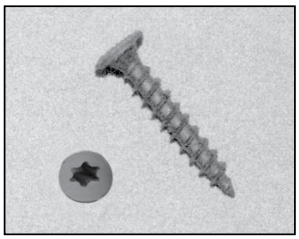
Cement-type boards or any dense sheathings to steel or wood studs.



Wire lath to steel or wood studs.



Plywood to steel or wood studs.



Hardie Fiber Cement Backerboard

SELECTION CHART

Hi-Lo Rock-On Fasteners

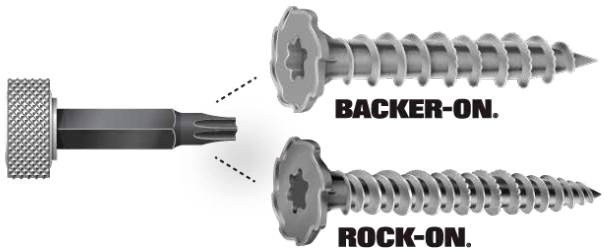
PART NUMBER	LENGTH	HEAD STYLE	MATERIAL THICKNESS	BOX QTY	APPLICATIONS
23301C	1-1/4"	T-25 (Bit Included)	1/4" Cement Board	185	- Cement Board to wood or light gauge steel 26-20 gauge
23306C	1-1/4"	T-25 (Bit Included)	1/4" Cement Board	750	
23311C	1-5/8"	T-25 (Bit Included)	1/2" Cement Board	140	

Backer-On Fasteners

PART NUMBER	LENGTH	HEAD STYLE	MATERIAL THICKNESS	BOX QTY	APPLICATIONS
23401C	1-1/4"	T-25 (Bit Included)	1/4" Cement Board	185	- Backer Board to wood or light gauge steel 26-20 gauge
23406C	1-1/4"	T-25 (Bit Included)	1/4" Cement Board	750	
23411C	1-5/8"	T-25 (Bit Included)	1/2" Cement Board	140	

Accessories

PART NUMBER	DESCRIPTION	BOX QTY
24000C	T-25 Stikfit Bit (2/PK)	12 Packs



Rock-On, Backer-On Fasteners

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

FASTENER	STEEL GAUGE (Lbs.)							
	26	24	22	20	18	16	14	12
Hi-Lo	163	242	314	370	-----	-----	-----	-----
Backer-On	271	371	457	615	-----	-----	-----	-----

Wood Embedment

#2 SPF 2 x 4	1/2"	3/4"	1"	1-1/4"
Hi-Lo	223	312	555	676
Backer-On	-----	436	780	-----

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.

Gridmate® BR

Plastic Insulation Fasteners

DESCRIPTION/ADVANTAGES

Fastening Insulation To Concrete—

- Textured head allows for coverage of stucco.
- Non cold-conductive.
- Made from strong Polypropylene.
- Fins provided high holding power.
- Non Corrosive.
- Easy to install.

APPLICATIONS

- All Polymer Modified (PM) Systems.
- Modified Stucco Systems.
- Exapnded lath over EPS, XPS or ISO rigid insulation.
- Fiberglass fabric over rigid insulation.
- Wire mesh over rigid insulation.
- Attaching rigid insulation to masonry or concrete.

SELECTION CHART

Gridmate BR Anchor

PART NUMBER	REFERENCE NUMBER	DESCRIPTION	HOLE DIAMETER	MAXIMUM GRIP	BOX QTY
56040	56040	2-3/4"	5/16"	1-1/2"	250
56050	56050	3-1/2"	5/16"	2-1/2"	200
56060	56060	4-3/8"	5/16"	3-1/4"	200
56070	56070	5-1/4"	5/16"	4"	100

Washer diameter is 1-3/8"

PERFORMANCE TABLE

Gridmate BR

BASE MATERIAL	EMBEDMENT	ULTIMATE PULLOUT
25 MPA Concrete	1-1/8"	113 lbs.
Concrete Block	1-1/8"	113 lbs.
Brick	1-1/8"	113 lbs.

8 fasteners per 4' x 8' sheet required.

ITW Construction Products

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- Factory representatives with years of training and service experience will go out to your job site to provide you with product, service and technical assistance.
- We provide architects and engineers with complete submittal packages which gives them the technical data needed to specify ITW Construction Products Canada products. Contact your ITW Construction Products Canada Distributor or your nearest Customer Service location to request submittal packages.

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- Our staff of application specialists are ready to assist you with any type of application or code approval question during any phase of your project. Call 1-800-387-9692 between 8:00 a.m. and 5:00 p.m. EST, Monday through Friday.

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