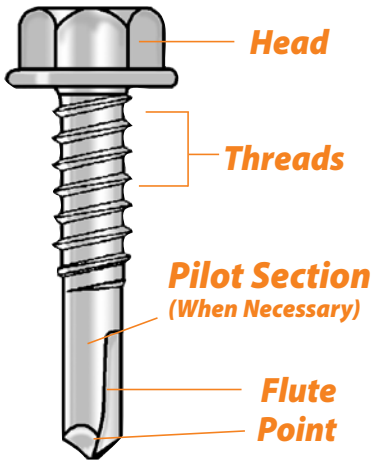
ITW Buildex

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

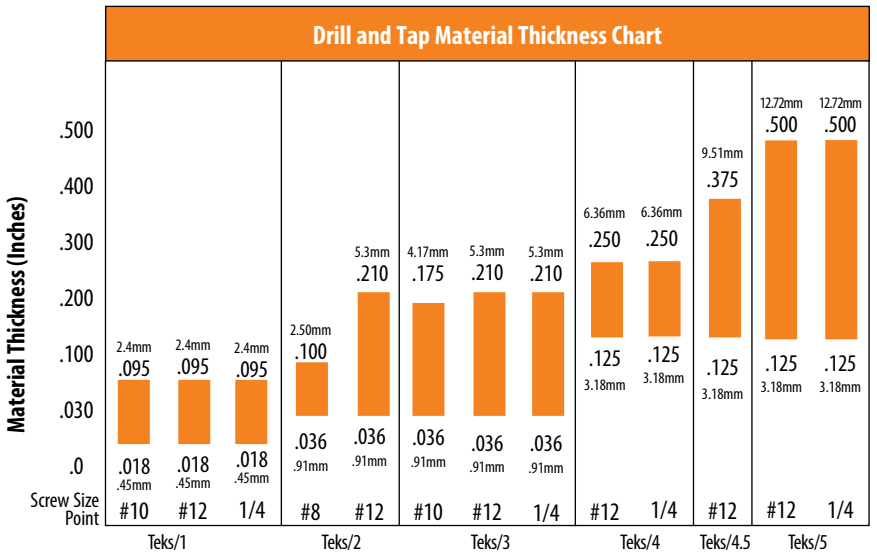
Nominal Screw Sizes

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 Construction Products
Call our toll free number **800-387-9692** or visit **www.itwconstruction.ca** for general information.
Visit ITW Buildex's web site **www.itwbuildex.com** for the most current product and technical information.

ITW Buildex

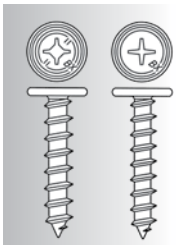
TEKS® Self-Drilling Fasteners

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

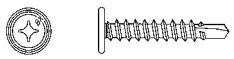
1. A standard screwgun with a depth sensitive nosepiece should be used to install Teks. For optimal fastener performance, the screwgun should be a minimum of 6 amps and have a RPM range of 0-2500.
2. Adjust the screwgun nosepiece to properly seat the fastener.
3. The fastener is fully seated when the 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.

TEKS Low Profile Architectural Metal Roof Clip Fastener

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.