



The following pages are an excerpt from the North American Product Technical Guide, Volume 1: Direct Fastening Technical Guide, Edition 24.

Please refer to the publication in its entirety for complete details on this product including data development, base materials, general suitability, installation, corrosion, and product specifications.

[Direct Fastening Technical Guide, Edition 24](#)

To consult directly with a team member regarding our direct fastening products, contact Hilti's team of technical support specialists between the hours of 7:00am - 5:00pm CST.

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3.2.9 DRYWALL TRACK FASTENING SYSTEMS

3.2.9.1 PRODUCT DESCRIPTION

Hilti offers powder, gas and electro-mechanical (battery) actuated systems for attaching drywall track to concrete or steel. Powder-actuated fastening systems typically have more power than gas or battery actuated systems allowing for higher application limits with various base materials. Powder-actuated fasteners range in length from 1/2" to 2-1/2" for a wide variety of applications such as drywall track attachment. Gas and battery actuated systems are focused on high volume repetitive fastenings such as drywall track to standard strength concrete or steel (1/2" to 1-5/8" fastener length).

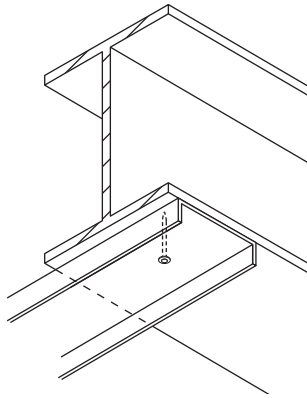
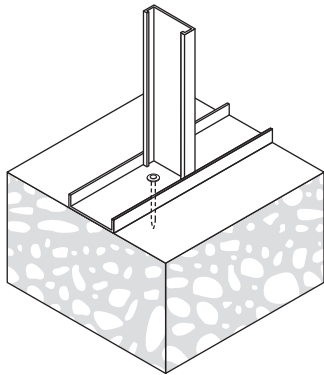
Product features

Powder-actuated fasteners:

- Shank diameters* of 0.138", 0.145" or 0.157" are available providing a variety of solutions depending on application requirements.
- Knurled shank fasteners available for steel applications.
- Full range of fasteners either collated or in single fastener configurations to maximize productivity.

Gas and electro-mechanical actuated fasteners:

- Shank diameter of 0.101", 0.108" or 0.118" provides ease of penetration in concrete and steel.
- Collated fastener offering for high productivity in high volume applications.
- Ideally suited for interior (drywall track), non-load bearing, nonstructural framing applications in concrete or steel.



3.2.9.1 Product description

3.2.9.2 Material specifications

3.2.9.3 Technical data

3.2.9.4 Ordering information



Collated track fasteners for concrete



Collated track fasteners for steel



Track Fastener with Metal "Top Hat" Washer



Track Fastener with Plastic "Top Hat" Washer

Listings/Approvals

ICC-ES (International Code Council)

ESR-2269 with LABC/LARC Supplement (X-U and X-U 15)

ESR 1752 with LABC/LARC Supplement (X-S 13, X-S16, X-C 22 P8TH, X-C 20 THP and Hilti Gas- & Battery-Actuated Fasteners)

ESR-1663 with LABC/LARC Supplement (X-C, X-C 22 P8TH and X-C 20 THP)



* X-U Universal Powder-Actuated fasteners with 0.157" shank diameter are also available for drywall track fastening and are discussed in more detail in Sections 3.2.6.

3.2.9.2 MATERIAL SPECIFICATIONS

Fastener designation	Fastener material	Fastener plating	Base material	Powder, gas or electro-mechanical actuated
X-S13 THP	Carbon Steel	5 µm Zinc ¹	Steel	Powder-Actuated
X-S16 P8TH	Carbon Steel	5 µm Zinc ¹	Steel	Powder-Actuated
X-U 15	Carbon Steel	5 µm Zinc ¹	Steel	Powder-Actuated
X-C	Carbon Steel	5 µm Zinc ¹	Concrete or Masonry	Powder-Actuated
X-C 39 G2	Carbon Steel	5 µm Zinc ¹	Concrete or Masonry	Gas-Actuated
X-C 39 G3	Carbon Steel	5 µm Zinc ¹	Concrete or Masonry	Gas-Actuated
X-S 14 G2	Carbon Steel	8-to-16 µm Zinc	Steel	Gas-Actuated
X-S 14 G3	Carbon Steel	2-to-10 µm Zinc	Steel	Gas-Actuated
X-C G2	Carbon Steel	2-to-10 µm Zinc	Concrete or Masonry	Gas-Actuated
X-C G3	Carbon Steel	5 µm Zinc ¹	Concrete or Masonry	Gas-Actuated
X-P G2	Carbon Steel	2-to-10 µm Zinc	High-Strength Concrete or Steel	Gas-Actuated
X-P G3	Carbon Steel	2-to-10 µm Zinc	High-Strength Concrete or Steel	Gas-Actuated
X-C 36 B3	Carbon Steel	2-to-10 µm Zinc	Concrete or Masonry	Electro-mechanical-Actuated
X-C 39 B4	Carbon Steel	2-to-10 µm Zinc	Concrete or Masonry	Electro-mechanical-Actuated
X-S14 B3	Carbon Steel	2-to-10 µm Zinc	Steel	Electro-mechanical-Actuated
X-S 14 B4	Carbon Steel	2-to-10 µm Zinc	Steel	Electro-mechanical-Actuated
X-C B3	Carbon Steel	5 µm Zinc ¹	Concrete or Masonry	Electro-mechanical-Actuated
X-C B4	Carbon Steel	5 µm Zinc ¹	Concrete or Masonry	Electro-mechanical-Actuated
X-P B3	Carbon Steel	2-to-10 µm Zinc	High-Strength Concrete or Steel	Electro-mechanical-Actuated
X-P B4	Carbon Steel	2-to-10 µm Zinc	High-Strength Concrete or Steel	Electro-mechanical-Actuated

¹ ASTM B633, SC 1, Type III. Refer to Section 2.3.3.1 for more information.

3.2.9.3 TECHNICAL DATA

Allowable loads in normalweight concrete^{1,2}

Fastener	Shank diameter in. (mm)	Minimum embedment in. (mm)	Concrete compressive strength					
			2000 psi		4000 psi		6000 psi	
			Tension lb (kN)	Shear lb (kN)	Tension lb (kN)	Shear lb (kN)	Tension lb (kN)	Shear lb (kN)
X-C 22 P8TH	0.138 (3.5)	3/4 (19.0)	55 (0.24)	130 (0.58)	90 (0.40)	170 (0.76)	100 (0.44)	200 (0.89)
X-C G2 (except X-C 39 G2) X-C 36 B3 X-C 39 B4	0.108 (2.75)	3/4 (19.0)	60 (0.27)	90 (0.40)	60 (0.27)	90 (0.40)	-	-
X-C G3 X-C B3 X-C B4 (Except 36- & 39-mm lengths)	0.118 (3.0)	3/4 (19.0)	60 (0.27)	90 (0.40)	60 (0.27)	90 (0.40)	-	-
X-C 39 G2 X-C 39 G3	0.101 (2.6)	5/8 (16.0)	50 (0.22)	80 (0.36)	50 (0.22)	80 (0.36)	-	-
X-P G2 X-P G3 X-P B3 X-P B4	0.118 (3.0)	5/8 (16.0)	50 (0.22)	90 (0.40)	50 (0.22)	120 (0.53)	50 (0.22)	90 (0.40)
		3/4 (19.0)	80 (0.36)	120 (0.53)	50 (0.22)	120 (0.53)	50 (0.22)	90 (0.40)

1 The tabulated allowable load values are for the low-velocity fasteners only, using a safety factor that is greater than or equal to 5.0, calculated in accordance with ICC-ES AC70. Wood or steel members connected to the substrate must be investigated in accordance with accepted design criteria.

2 Multiple fasteners are recommended for any attachment.

Allowable loads in minimum $f'_c = 3000$ psi structural lightweight concrete^{1,3}

Fastener	Shank diameter in. (mm)	Minimum embedment in. (mm)	Allowable loads lb (kN)						Minimum required concrete thickness above deck panel in.
			Installed into concrete		Installed through steel deck panel into concrete ²				
					Upper flute	Lower flute	Upper flute	Lower flute	
Fastener location:			Tension	Shear	Tension		Shear		
Load direction:			Tension	Shear	Tension		Shear		
X-C20 THP	0.138 (3.5)	5/8 (16)	55 (0.24)	110 (0.49)	-	45 (0.20)	285 (1.27)	285 (1.27)	3-1/4
X-C22P8TH	0.138 (3.5)	3/4 (19)	120 (0.53)	220 (0.98)	120 (0.53)	95 (0.42)	260 (1.16)	260 (1.16)	3-1/4
X-C G2 (except X-C 39 G2) X-C 36 B3 X-C 39 B4	0.108 (2.75)	3/4 (19)	110 (0.49)	140 (0.62)	75 (0.33)	85 (0.38)	175 (0.78)	215 (0.96)	2-1/2
		1 (25)	170 (0.76)	220 (0.98)	155 (0.69)	160 (0.71)	255 (1.13)	315 (1.40)	3
X-C G3 X-C B3 X-C B4 (except 36- & 39-mm lengths)	0.118 (3.0)	3/4 (19)	115 (0.51)	140 (0.62)	75 (0.33)	85 (0.38)	175 (0.78)	215 (0.96)	2-1/2
		1 (25)	170 (0.76)	220 (0.98)	155 (0.69)	160 (0.71)	255 (1.13)	315 (1.40)	3-1/4
X-P G2 X-P G3 X-P B3 X-P B4	0.118 (3.0)	5/8 (16)	60 (0.27)	140 (0.62)	60 (0.27)	60 (0.27)	175 (0.78)	215 (0.96)	2-1/2

1 The tabulated allowable load values are for the low-velocity fasteners only, using a safety factor that is greater than or equal to 5.0, calculated in accordance with ICC-ES AC70. Wood or steel members connected to the substrate must be investigated in accordance with accepted design criteria.

2 The steel deck profile is 3" deep composite floor deck with a thickness of 20 gauge (0.0358"). Figure 1 (Section 3.2.1.6) shows the nominal flute dimensions, fastener locations, and load orientations for the deck profile.

3 Multiple fasteners are recommended for any attachment.

Allowable loads in minimum $f'_c = 3000$ psi structural lightweight concrete over 1-1/2" deep, B-type steel deck^{1,3}

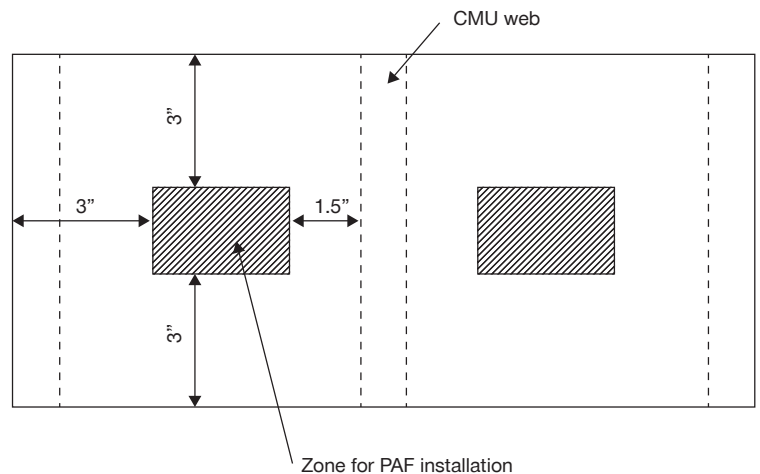
Fastener ^d	Shank diameter* in. (mm)	Minimum embedment in. (mm)	Allowable loads lb (kN)				Minimum required concrete thickness above deck panel in.
			Installed through steel deck panel into concrete ²				
			Upper flute		Lower flute		
			Tension		Shear		
X-C22P8TH	0.138 (3.5)	3/4 (19)	90 (0.40)	110 (0.49)	295 (1.31)	295 (1.31)	2-1/2
X-C G2	0.108 (2.75)	3/4 (19)	75 (0.33)	85 (0.38)	175 (0.78)	215 (0.96)	2-1/2
		1 (25)	155 (0.96)	160 (0.71)	255 (1.13)	270 (1.20)	3-1/4
X-C G3 X-C B3 X-C B4 (except 36- & 39-mm lengths)	0.118 (3.0)	3/4 (19)	75 (0.33)	85 (0.38)	175 (0.78)	215 (0.96)	2-1/2
		1 (25)	155 (0.96)	160 (0.71)	255 (1.13)	315 (1.40)	3-1/4
X-P G2 X-P G3 X-P B3 X-P B4	0.118 (3.0)	5/8 (16)	60 (0.27)	60 (0.27)	175 (0.78)	215 (0.96)	2-1/2

- The tabulated allowable load values are for the low-velocity fasteners only, using a safety factor that is greater than or equal to 5.0, calculated in accordance with ICC-ES AC70. Wood or steel members connected to the substrate must be investigated in accordance with accepted design criteria.
- Steel deck profiles are 1-1/2" deep, B-type deck with a thickness of 20 gauge (0.0358"). Fasteners may be installed through the metal deck into lightweight concrete having both nominal and inverted deck profile orientations with a minimum lower flute width of 1-3/4" or 3-1/2", respectively. Fasteners shall be placed at centerline of deck flutes. Refer to Figures 2 and 3 (Section 3.2.1.6) for additional flute dimensions, fastener locations, and load orientations for both deck orientations.
- Multiple fasteners are recommended for any attachment.
- X-U Universal Powder-Actuated fasteners and X-P high performance Powder-Actuated fasteners for concrete base materials with 0.157" shank diameters are also available for drywall track fastening and are discussed in more detail in Section 3.2.6.

Allowable loads in concrete masonry units^{1,2,3,4,5,7,10}

Fastener	Shank diameter in. (mm)	Minimum embedment in. (mm)	CMU type, mortar type	Allowable loads lb (kN)									
				Hollow CMU				Grout filled CMU					
				Face shell ⁶		Mortar joint		Face shell ⁶		Mortar joint		Top of grouted cell ⁶	
				Tension		Shear ⁹		Tension		Shear ⁷		Tension	
X-C G2 (except for X-C 39 G2) X-C 36 B3 X-C 39 B4	0.108 (2.75)	3/4 (19.0)	Normal weight, Type N minimum	75 (0.33)	140 (0.62)	60 (0.27)	80 (0.36)	100 (0.44)	170 (0.76)	100 (0.44)	160 (0.71)	80 (0.36)	130 (0.58)
				110 (0.49)	190 (0.85)	70 (0.31)	145 (0.64)	135 (0.60)	195 (0.87)	125 (0.56)	165 (0.73)	110 (0.49)	145 (0.64)
X-C 39 G2 X-C 39 G3	0.101 (2.6)	5/8 (16.0)	Normal weight, Type N minimum	60 (0.27)	110 (0.49)	45 (0.20)	65 (0.29)	85 (0.38)	110 (0.49)	55 (0.24)	105 (0.47)	-	-
X-C G3 X-C B3 X-C B4 (except 36- & 39-mm lengths)	0.118 (3.0)	3/4 (19.0)	Normal weight, Type N minimum	145 (0.64)	190 (0.85)	80 (0.36)	80 (0.36)	155 (0.69)	195 (0.87)	110 (0.49)	135 (0.60)	105 (0.47)	145 (0.64)
		1 (25)	Normal weight, Type S minimum	185 (0.82)	205 (0.91)	105 (0.47)	105 (0.47)	205 (0.91)	215 (0.96)	135 (0.60)	190 (0.85)	120 (0.53)	150 (0.67)
X-P G2 X-P G3 X-P B3 X-P B4	0.118 (3.0)	5/8 (16.0)	Normal weight, Type S minimum	40 (0.18)	80 (0.36)	15 (0.07)	40 (0.18)	90 (0.40)	100 (0.44)	40 (0.18)	80 (0.36)	60 (0.27)	85 (0.38)

- The tabulated allowable load values are for the low-velocity fastener only, using a safety factor of 5.0 or higher calculated in accordance with ICC-ES AC70. Wood or steel members connected to the substrate must be investigated in accordance with accepted design criteria.
- The tabulated allowable load values are for low-velocity fasteners installed in normal weight or lightweight concrete masonry units conforming to ASTM C90.
- The tabulated allowable load values are for low-velocity fasteners installed in concrete masonry units with mortar conforming to ASTM C270, Type N.
- The tabulated allowable load values are for low-velocity fasteners installed in concrete masonry units with grout conforming to ASTM C476, as coarse grout.
- The tabulated allowable load values are for one low-velocity fastener installed in an individual masonry unit cell and at least 8" from the edge of the wall. Unless otherwise noted, multiple fasteners in a bed joint must be spaced a minimum of 8 inches.
- Applicable placement zone of fastener located on the face shell is shown in the figure to the right.
- Shear direction can be horizontal or vertical (Bed Joint or T-Joint) along the CMU wall plane.
- Fastener located in center of grouted cell installed vertically.
- Shear can be in any direction.
- Multiple fasteners are recommended for any attachment.



Allowable loads for fasteners driven into steel^{1,2,3,4,9,11,12}

Fastener	Shank diameter in. (mm)	Allowable loads lb (kN)											
		1/8		3/16		1/4		3/8		1/2		3/4	
Steel thickness (inch):		Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear
X-S13 THP	0.145 (3.7)	140 ¹⁰ (0.62)	300 (1.33)	300 ¹⁰ (1.33)	450 (2.00)	300 ¹⁰ (1.33)	450 (2.00)	300 ¹⁰ (1.33)	450 (2.00)	-	-	-	-
X-S16P8TH ¹³	0.145 (3.7)	-	-	315 (1.40)	480 (2.14)	315 (1.40)	480 (2.14)	315 (1.40)	530 (2.36)	315 (1.40)	480 (2.14)	-	-
X-U 15	0.145 (3.7)	-	-	155 (0.69)	395 (1.76)	230 (1.02)	395 (1.76)	420 (1.87)	450 (2.00)	365 ⁷ (1.62)	500 ⁷ (2.22)	365 ⁷ (1.62)	400 ⁷ (1.78)
X-S 14 G3 X-S 14 B3 X-S 14 B4	0.118 (3.0)	140 (0.62)	230 (1.02)	220 (0.98)	245 (1.09)	225 (1.00)	290 (1.29)	280 (1.25)	330 (1.47)	280 (1.25)	330 (1.47)	280 (1.25)	330 (1.47)
X-S 14 G3 ^{5,6} X-S 14 B3 ^{5,6} X-S 14 B4 ^{5,6}	0.118 (3.0)	-	-	220 (0.98)	295 (1.31)	260 (1.16)	355 (1.58)	280 (1.25)	385 (1.71)	280 (1.25)	385 (1.71)	280 (1.25)	385 (1.71)
X-P G3 X-P B3 X-P B4	0.118 (3.0)	125 ¹⁰ (0.56)	230 (1.02)	170 ¹⁰ (0.76)	245 (1.09)	200 ¹⁰ (0.89)	230 (1.02)	250 ¹⁰ (1.11)	255 (1.13)	-	-	-	-
X-P G2	0.118 (3.0)	-	-	140 (0.62)	220 (0.98)	180 (0.80)	200 (0.89)	225 (1.00)	220 (0.98)	-	-	-	-
X-S 14 G2	0.118 (3.0)	-	-	-	-	215 (0.96)	290 (1.29)	150 ⁸ (0.67)	195 ⁸ (0.87)	130 ⁸ (0.58)	150 ⁸ (0.67)	130 ⁸ (0.58)	150 ⁸ (0.67)

- The tabulated allowable load values are for the low-velocity fasteners only, using a safety factor that is greater than or equal to 5.0, calculated in accordance with ICC-ES AC70. Wood or steel members connected to the substrate must be investigated in accordance with accepted design criteria.
- Unless otherwise noted, allowable loads are applicable to static and seismic loads in accordance with Annex A of ICC-ES AC70.
- Low-velocity fasteners shall be driven to where the point of the fastener penetrates through the steel base material in accordance with Section 3.2.2.3, except as noted in this table.
- Unless otherwise noted, steel base material must have minimum yield and tensile strengths (F_y and F_u) equal to 36 ksi and 58 ksi, respectively.
- Steel base material must have minimum yield and tensile strengths (F_y and F_u) equal to 50 ksi and 65 ksi, respectively.
- Fasteners installed into 3/8" or thicker base steel require 0.320" minimum penetration depth.
- Based upon minimum penetration depth into the steel of 15/32".
- Based upon minimum penetration depth into the steel of 1/4".
- Refer to guidelines for fastening to steel, Section 3.2.2, for application limits.
- For steel-to-steel connections designed in accordance with Section J5 of AISI S100, the tabulated allowable load may be increased by a factor of 1.25.
- Refer to guidelines for fastening to steel, Section 3.2.2, for application limits.
- Multiple fasteners are recommended for any attachment.
- Published values may vary from values in ICC-ESR

Allowable tensile pullover and shear bearing load capacities for steel framing with power-driven fasteners^{1,2,3,4}

Fastener	Shank diameter in. (mm)	Head diameter in. (mm)	Sheet steel thickness lb (kN)													
			14 ga.		16 ga.		18ga.		20 ga.		22 ga.		24 ga.		25/26 ga.	
			Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear
X-C G3 X-C B3 X-C B4 X-S 14 G3 X-S 14 B3 X-S 14 B4 X-P G3 X-P B3 X-P B4	0.118 (3.0)	0.276 (7.0)	-	-	-	-	325 (1.45)	390 (1.73)	265 (1.18)	335 (1.49)	250 (1.11)	235 (1.05)	170 (0.76)	185 (0.82)	100 (0.44)	125 (0.56)
X-C 22 P8TH X-C 20 THP	0.138 (3.5)	0.322 (8.2)	-	860 (3.83)	685 (3.05)	715 (3.18)	490 (2.18)	465 (2.07)	360 (1.60)	375 (1.67)	300 (1.33)	265 (1.18)	205 (0.91)	200 (0.89)	120 (0.53)	130 (0.58)
X-S13 THP	0.145 (3.7)	0.322 (8.2)	-	985 (4.38)	685 (3.05)	720 (3.20)	490 (2.18)	515 (2.29)	360 (1.60)	440 (1.96)	300 (1.33)	310 (1.38)	205 (0.91)	235 (1.05)	120 (0.53)	145 (0.64)
X-S16P8TH X-U 15	0.145 (3.7)	0.322 (8.2)	-	-	940 (4.18)	940 (4.18)	785 (3.49)	685 (3.05)	625 (2.78)	550 (2.45)	510 (2.27)	465 (2.07)	390 (1.73)	365 (1.62)	335 (1.49)	315 (1.40)

- Allowable load values are based on a safety factor of 3.0.
- Allowable pullover capacities of sheet steel should be compared to the allowable fastener tensile load capacities in concrete, steel, and masonry to determine controlling resistance load.
- Allowable shear bearing capacities of sheet steel should be compared to allowable fastener shear capacities in concrete, steel or masonry to determine controlling resistance load.
- Data is based on the following minimum sheet steel properties, $F_y = 33$ ksi, $F_u = 45$ ksi (ASTM A653 material).

3.2.9.4 ORDERING INFORMATION

Powder-actuated (concrete)

Fastener description	Shank length in.(mm)	Shank diameter in.(mm)	Washer diameter
X-C 20 THP	3/4 (20)	0.138 (3.5)	8 mm plastic tophat
X-C 22 TH	7/8 (22)	0.138 (3.5)	8 mm metal tophat
X-C 20 MX	3/4 (20)	0.138 (3.5)	Collated

Powder-actuated (steel)

Fastener description	Shank length in.(mm)	Shank diameter in.(mm)	Washer diameter
X-S13 THP	1/2 (13)	0.145 (3.7)	8 mm plastic tophat
X-S13 MX	1/2 (13)	0.145 (3.7)	Collated
X-S16 TH	5/8 (16)	0.145 (3.7)	8 mm metal tophat
X-U 15 TH	5/8 (16)	0.145 (3.7)	8 mm metal tophat
X-U 15 MX	5/8 (16)	0.145 (3.7)	Collated

Gas-actuated (concrete)

Tool	Fastener description	Shank length in.(mm)	Shank diameter in.(mm)	Washer diameter
GX 2	X-C 20 G2 MX	3/4 (20)	0.108 (2.75)	Collated
	X-C 27 G2 MX	1 (27)	0.108 (2.75)	Collated
	X-C 32 G2 MX	1-1/4 (32)	0.108 (2.75)	Collated
	X-C 39 G2 MX	1-1/2 (39)	0.101 (2.6)	Collated
	X-P 17 G2 MX	11/16 (17)	0.118 (3.0)	Collated
	X-P 20 G2 MX	3/4 (20)	0.118 (3.0)	Collated
GX 3	X-C 20 G3 MX	3/4 (20)	0.118 (3.0)	Collated
	X-C 27 G3 MX	1 (27)	0.118 (3.0)	Collated
	X-C 32 G3 MX	1-1/4 (32)	0.118 (3.0)	Collated
	X-C 39 G3 MX	1-1/2 (39)	0.101 (2.75)	Collated
	X-P 17 G3 MX	11/16 (17)	0.118 (3.0)	Collated
	X-P 20 G3 MX	3/4 (20)	0.118 (3.0)	Collated

Gas-actuated (Steel)

Tool	Fastener description	Shank length in.(mm)	Shank diameter in.(mm)	Washer diameter
GX 2	X-S 14 G2 MX	1/2 (14)	0.118 (3.0)	Collated
	X-P 17 G2 MX	11/16 (17)	0.118 (3.0)	Collated
GX 3	X-S 14 G3 MX	1/2 (14)	0.118 (3.0)	Collated
	X-P 17 G3 MX	11/16 (17)	0.118 (3.0)	Collated
	X-P 20 G3 MX	3/4 (20)	0.118 (3.0)	Collated

Electro-Mechanical Actuated (Concrete)

Tool	Fastener description	Shank length in.(mm)	Shank diameter in.(mm)	Washer diameter
BX 3	X-C 20 B3 MX	3/4 (20)	0.118 (3.0)	Collated
	X-C 24 B3 MX	15/16 (24)	0.118 (3.0)	Collated
	X-C 36 B3 MX	1-3/8 (36)	0.108 (2.75)	Collated
	X-P 17 B3 MX	11/16 (17)	0.118 (3.0)	Collated
	X-P 20 B3 MX	3/4 (20)	0.118 (3.0)	Collated
	X-P 24 B3 MX	15/16 (24)	0.118 (3.0)	Collated
BX 4	X-C 20 B4 MX	3/4 (20)	0.118 (3.0)	Collated
	X-C 27 B4 MX	15/16 (24)	0.118 (3.0)	Collated
	X-C 32 B4 MX	1-1/4 (32)	0.118 (3.0)	Collated
	X-C 39 B4 MX	1-1/2 (37.5)	0.101 (2.6)	Collated
	X-P 17 B3 MX	11/16 (17)	0.118 (3.0)	Collated
	X-P 20 B3 MX	3/4 (20)	0.118 (3.0)	Collated
	X-P 24 B3 MX	15/16 (24)	0.118 (3.0)	Collated

Electro-Mechanical Actuated (Steel)

Tool	Fastener description	Shank length in.(mm)	Shank diameter in.(mm)	Washer diameter
BX 3	X-S 14 B3 MX	1/2 (14)	0.118 (3.0)	Collated
	X-P 17 B3 MX	11/16 (17)	0.118 (3.0)	Collated
	X-P 20 B3 MX	3/4 (20)	0.118 (3.0)	Collated
	X-P 24 B3 MX	15/16 (24)	0.118 (3.0)	Collated
BX 4	X-S 14 B4 MX	1/2 (14)	0.118 (3.0)	Collated
	X-P 17 B4 MX	11/16 (17)	0.118 (3.0)	Collated
	X-P 20 B4 MX	3/4 (20)	0.118 (3.0)	Collated
	X-P 24 B4 MX	15/16 (24)	0.118 (3.0)	Collated