

TEKS®

Low Profile Architectural Metal Roof Clip Fasteners & Rake Angle Shoulder Tekes

Incorporates the ITW exclusive Phillips Square-Driv® anti-cam-out system.



Applications

- Low profile architectural metal roof clips to steel purlin.
- Low profile architectural metal roof clips to wood supports.

Product Features

- #12 diameter utilizes the Phillips Square-Driv with interlocking components system.
 - Keeps the driver securely mated to the fastener during installation.
 - Hands-free installation.
- 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.
- #10 Diameter uses the coated Phillips drive system providing improved driver bit to fastener stability and friction fit.

Product Specifications

Low Profile

Diameter.....	#10, #12
Thread Form.....	10-16 (Tekes 3), 10-12 (Type A) 12-14 (Tekes 3), 12-11 (Type A)
Head Style.....	#10: #2 Phillips Pancake #12: #2 Phillips Square-Driv Pancake
Drill Point.....	Teks® 3 Type A
Finish.....	Climacoat (Type A) Gray Spex (Tekes 3)

Rake Angle

Diameter.....	1/4
Thread Form.....	1/4-14
Head Style.....	HWH
Drill Point.....	#3
Finish.....	Climaseal®

Head Styles

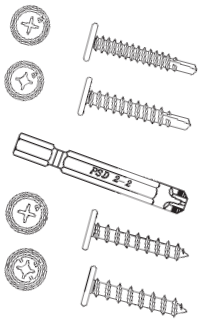
- #2 Phillips Square-Driv
- #2 Phillips Pancake



Approvals and Listings

- NOA 09-0928:07
- #10-12 x 1"
 - #10-12 x 1-1/2"

Selector Guide



Part Number	Description	Head Style	Drill Point	Drill & Tap Capacity	Max. Material Attachment	Box Qty	Applications
1560553	10-16 x 1"	#2 Phillips Pancake	#3	.036-.175	.550	4,000	• Low profile architectural metal roof clip to steel purlin
1575553	12-14 x 1"	#2 PSD Pancake	#3	.036-.210	.550	4,000	
1713053	*1/4-14 x 1-1/4"	**HWH	#3	.036-.210	.617	2,500	
1588910	#2 PSD Bit					1	• For #12 Diameter Fastener
2128910	#2 Bit					1	
11596553	10-12 x 1"	#2 Phillips Pancake	Type A	.012-.048	.250	4,000	• Low profile architectural metal roof clip to wood supports
1640553	10-12 x 1-1/2"	#2 Phillips Pancake	Type A	.012-.048	.750	2,500	
1597553	12-11 x 1"	#2 PSD Pancake	Type A	.012-.048	.250	4,000	

* With depth of shoulder
 ** 5/16" Across Flats HWH

Performance Data

PULLOUT VALUES (average lbs. ultimate)									
Fastener		Steel Gauge							
Dia.	Pt.	26	24	22	20	18	16	14	12
#10	3	109	180	218	278	427	583	873	1406
#12	3	139	194	250	369	450	598	915	1500
#10	TypeA	192	280	360	460	568	-	-	-
#12	TypeA	193	300	387	464	621	-	-	-
1/4	3	141	231	293	346	613	880	1145	1858

FASTENER VALUES				
Fastener (dia-tpi)	Point	Tensile (lbs. min.)	Shear (avg. lbs. ult.)	Torque (min. in. lbs.)
10-16	3	1983	1400	78
12-14	3	2652	2000	92
10-12	Type A	2581	1426	81
12-11	Type A	3634	1994	132
1/4	3	4060	2600	150

SHEET STEEL GAUGES								
Gauge No.	12	14	16	18	20	22	24	26
Decimal Equivalent	.105"	.075"	.060"	.048"	.036"	.030"	.024"	.018"

SHEAR VALUES (average lbs. ultimate)					
Fastener		Steel Gauge (lapped)			
Dia.	Pt.	20 gauge	18 gauge	16 gauge	14 gauge
#10	3	727	1164	1366	1460
#12	3	923	1279	1657	1933
1/4	3	930	1442	2100	2584

PULLOUT VALUES (average lbs. ultimate)						
Fastener		Wood Type & Thickness				
Dia.	Pt.	1/2" Plywood	5/8" Plywood	3/4" Plywood	Yellow Pine	3/4" OSB
#10	Type A	364	382	400	579	288
#12	Type A	377	395	427	675	326

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.

Installation Guidelines

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



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