




# HTZ™

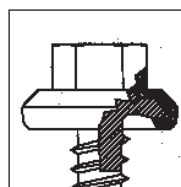
## High Torque Zinc Die Cast Long Life Metal Building Tek® Fasteners

Buildex HTZ fasteners exhibit the highest torsional head strength in the zinc die cast market... no head failures.










### Applications

-  Panel over blanket insulation to steel frame.
-  Stitch roof and wall sidelaps.
-  Standing seam roof system endlaps.



No Mar Radius Head Design

### Product Features

-  HTZ patented "Internal Spline" provides the strongest torsional values in the industry ... no head failures.
-  Zinc aluminum alloy head provides acceptable long life resistance ... no red rust.
-  "No mar radius head design" will not scratch, pierce or damage panels if overdriven.
-  Indented HWH provides excellent socket stability.
-  For improved appearance and extra life an integral design controls the EPDM washer ... maximum sealing protection.
-  Non-walking point, fast material engagement.
-  Point-to-thread design maximizes pullout performance and minimizes backout.

### Product Specifications

Diameter.....#12, 1/4, #17

Thread Form.....12-14, 1/4-14, 17-14, 9-15

Point Type.....Tek® 1, Tek® 2, Type AB

Finish.....Climaseal®

Available with P<sup>3</sup> powder paint

### Head Style

5/16 HWH zinc-aluminum alloy with integral washer design.



**Selector Guide**



Part Number	Description	Head Style	Drill Point	Drill & Tap Capacity	Max. Material Attachment
1721053	1/4-14 x 7/8"	HTZ	#1	.024-.095	.320
1727053	12-14 x 1	HTZ	#2	.024-.095	.310
1729053	12-14 x 1-1/2"	HTZ	#2	.036-.210	.790
1757053	12-14 x 2"	HTZ	#2	.036-.210	1.40
1723053	1/4-14 x 1-1/4"	HTZ	#2	.036-.210	.630
1778053	1/4-14 x 1-1/2"	HTZ	AB		1.180

**Performance Data**

Pullout Values (average lbs. ultimate)											
Fastener		Steel Gauge									
Dia.	Pt.	26	24	22	20	18	16	14	12	3/16	1/4
12	2	156	243	283	375	605	848	1181	1856	3520	-
1/4	1	208	329	428	562	800	1151	-	-	-	-
	2	141	231	293	346	613	830	1145	1858	4550	-
	AB	235	365	496	597	702	926	1180	1690	3446	4212

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	
1/4	1	511	849	885	1244	1764	-	-	-	
	2	-	-	-	930	1442	2100	2584	2650	
	AB	422	482	669	889	1157	-	-	-	

Sheet Steel Gauges									
Gauge No.	12	14	16	18	20	22	24	26	
Decimal Equivalent	.105"	.075"	.060"	.048"	.036"	.030"	.024"	.018"	

Fastener Values			
Fastener (dia-tpi)	Tensile (lbs. min.)	Shear (avg.lbs.ult.)	Torque (min.in.lbs.)
12-14	2778	2000	92
1/4-14	4060	2600	150

Note: Tek screws 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.

**Installation Guidelines**

- A standard screwgun with a depth sensitive nosepiece should be used to install Tek screws®. 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.
- New magnetic sockets must be correctly set before use. Remove chip build-up as needed.
- The fastener is fully seated when the head is flush with the work surface.
- The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

