



Fixing to Metal

Buildex® Metal Tek®

Self-Drilling Screws with a hardened drill point that will drill and thread in structural steel and mild steel. These Tek points are designed in a manner much the same as high speed steel drill bits.

To choose the correct fastener, it is necessary to select one where **the length of the drill point is equal to or greater than the total thickness of the material to be drilled including the air-gap**. If the drill point is less than the total thickness of the material and the thread engages, then the fastener can break or become impossible to drive.

Buildex Fasteners into Steel - Installation Table

Recommended Screw Drilling Capacity

Screw Gauge/TPI	Steel Thickness												
	0.55mm Batten	0.75mm Batten	1mm Steel	1.2mm Steel	1.5mm Steel	1.9mm Steel	2.5mm Steel	3mm Steel	3.5mm Steel	5.0mm Steel	6.0mm Steel	8.0mm Steel	12mm Steel
6g - 20 TPI		✓	✓	✓	✓	✓	✓						
8g - 18 TPI		✓	✓	✓	✓	✓	✓						
10g - 16 TPI		✓	✓	✓	✓	✓	✓	✓	✓				
10g - 24 TPI				✓	✓	✓	✓	✓	✓	✓			
M5.5 - 14 TPI			✓	✓	✓	✓	✓	✓	✓	✓			
M6 Roof/ZIPS®	✓	✓	✓	✓	✓	✓							
12g - 14 TPI			✓	✓	✓	✓	✓	✓	✓	✓			
12g - 24 TPI				✓	✓	✓	✓	✓	✓	✓			
12g - 24 TPI Series 500								✓	✓	✓	✓	✓	✓
14g - 10 TPI			✓	✓	✓	✓	✓	✓	✓	✓			
14g - 20 TPI				✓	✓	✓	✓	✓	✓	✓	✓		
14g - 20 TPI Series 500								✓	✓	✓	✓	✓	✓
14g - 10 TPI		✓											

Indicates minimum to maximum recommended steel thickness

Note: The installation table is a guide only. When using the fastener within and outside the guide lines practical and appropriate safety factors need to be applied for design purposes. These recommendations apply to Buildex® (BX Head marked) products only.

Refer Technical Data pages for fastener and installation mechanical properties.

How To Use

1. Measure the total thickness of the materials to be drilled.
2. Choose a screw that has a drilling capacity equal to or greater than the total thickness of materials to be drilled.

Screw Gauge-TPI	Recommended Drill Capacity
6 - 20	0.75mm - 2.5mm
8 - 18	0.75mm - 2.5mm
10 - 16	0.75mm - 3.5mm
10 - 24	1.2mm - 5mm
12 - 14	1.0mm - 5mm
12 - 24	1.2mm - 5mm
12 - 24 Series 500	3mm - 12mm
M5.5 - 14	1.0mm - 5.0mm
M6 - 11	0.55mm - 1.9mm
14 - 10	1.0mm - 5mm
14 - 20	1.2mm - 6mm
14 - 20 Series 500	3mm - 12mm
15 - 15	0.75mm

3. Select the correct driver for the screw being used.

Head Style	Driver
Button Head	#2 Phillips bit
Bugle Batten	#2 Phillips bit
CSK 6/8/10g	#2 Phillips bit
CSK 14g	#3 Phillips bit
CSK Rib 6/8/10g	#2 Phillips bit
CSK Rib 14g	#3 Phillips bit
Hex Hd 8g	1/4" Hex Socket
Hex Hd 10/12/13g	5/16" Hex Socket
Hex Hd 14/15g	3/8" Hex Socket
Pan Hd	#2 Phillips bit
Ripple Tek	#2 Phillips bit
Self Embedding Head	#2 Phillips bit
Tamper Resistant Hd	*Special Driver*
Wafer Hd 8/10g	#2 Phillips bit
Wafer Hd 12g	#3 Phillips bit

**Available from the Buildex Customer Service Centre.*

5. Fit driver to a power screwdriver (Tek Gun) with a speed under 3000rpm.
6. Put screw onto driver and place at fastening position.
7. Squeeze screwdriver trigger and maintain firm end pressure until screw has drilled and fastened.