

# **BLAZER ULTRA**

## **HIGH PERFORMANCE DRILL SCREWS**

**SELF-DRILLING FASTENERS FOR  
METAL TO METAL APPLICATIONS**



*When only ultra-performance  
will do, specify the family of  
**BLAZER ULTRA!***

**BLAZER**  
**HI-HEX**

**BLAZER**  
**PILOT**

**BLAZER**  
**LO-PROFILE**

**BLAZER**  
**LO-PROFILE HD**



*"Specialty Fasteners and Services for Construction"*

(800) 486-1832

[www.trianglefastener.com](http://www.trianglefastener.com)

Have you ever been frustrated with self-drilling fasteners that don't drill or drive to your expectations? We have the solution!

Introducing **BLAZER ULTRA**, a line of fasteners designed for ultra-performance. Each fastener as been engineered to exceed industry standards for optimal drilling and driving.

*If you're needing an ultra-performance drill screw, give BLAZER ULTRA a drive!*

## Here's our lineup of BLAZER ULTRA...

### BLAZER Hi-Hex



TFC head marking provides identification and traceability!



Serration for 30% more clamping load and to resist loosening!

**Higher hex producing 30% more socket engagement for improved driving stability**

#### SIZES AND POINT TYPE

#10-16 x 5/8" DP2

#10-16 x 3/4" DP3

#### APPLICATIONS

Drilling and tapping up to .155" thick steel.

Drilling and tapping up to .175" thick steel.

Head Type: 5/16" **Hi-Hex** Hex Washer Head with serration.

Material: Carbon Steel

Finish: .00015" Minimum Electro Zinc Plate. Clear Chromate

Corrosion Results: 24 hrs Salt Spray

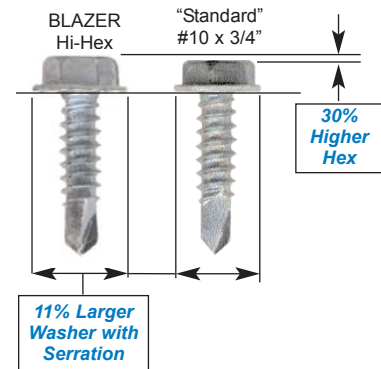


#### Why BLAZER Hi-Hex?

**BLAZER Hi-Hex** is produced with a head that is 30% higher than a standard #10 drill screw. This additional height provides exceptional drive socket stability, eliminating fastener cam-out.

Washer face with serrations increases clamping load by 30% and helps resist loosening.

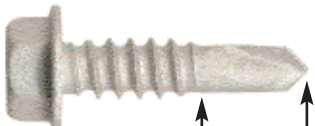
#### Compare BLAZER ULTRA to Standard Drill Screws



### BLAZER PILOT



TFC head marking provides identification and traceability!



Special long-pilot section allows the drilling to complete before threads engage!



StressLess undercut reduces stress under the fastener head!

**Long pilot section allows the fastener to complete the drilling before tapping occurs, eliminating drill point failures.**

#### SIZES AND POINT TYPE

#12-14 x 7/8" DP3

#### APPLICATIONS

Drilling and tapping up to .210" thick steel.

Head Type: 5/16" Hex Washer Head.

Material: Carbon Steel

Finish: .0003" Min. Electro Zinc Plated with Fluoropolymer Topcoat.

Corrosion Results: 1,000 hrs Salt Spray

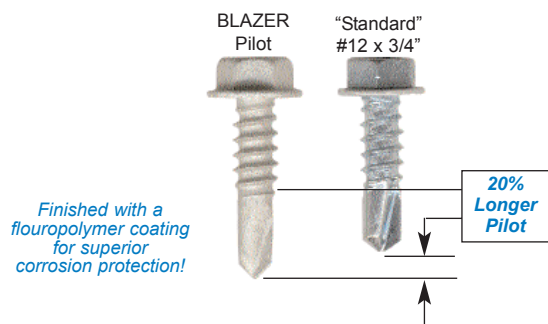


#### Why BLAZER PILOT?

**BLAZER Pilot** is designed with a longer pilot section than a standard drill screw. This allows the fastener to complete the drilling operation before thread engagement, eliminating panel jacking.

**BLAZER Pilot** is long-life coated and works great in exterior applications.

#### Compare BLAZER ULTRA to Standard Drill Screws



# BLAZER Lo-PROFILE

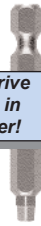


#2 Square/Phillips drive for superior drivability



Low profile pancake head is 12% thinner than round washer head fasteners

Free square drive bits included in each container!



#2-square/Phillips drive eliminates cam-out compared to phillips drive screws.

**SIZES AND POINT TYPE**  
#10-16 x 5/8" DP3

**APPLICATIONS**  
Drilling and tapping up to .175" thick steel.

Head Type: Pancake Head (.085" thick)  
Drive Type: #2 Square/Phillips Recess  
Material: Carbon Steel  
Finish: .0003" Minimum Electro Zinc with yellow dichromate  
Corrosion Results: 48hrs Salt Spray



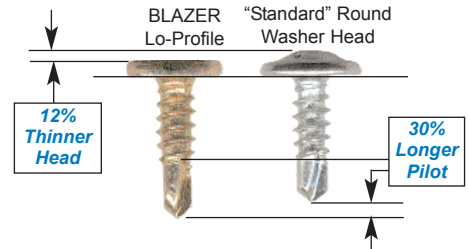
## Why BLAZER Lo-PROFILE?

**BLAZER Lo-Profile** has a thinner head compared to round washer head fasteners which is great for steel framing applications under drywall.

The square drive system eliminates drive bit cam-out associated with ordinary phillips drives.

The longer pilot section allows the fastener to complete drilling before thread engagement occurs, eliminating "jacking" of the material.

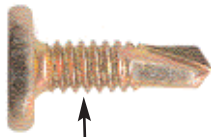
### Compare BLAZER ULTRA to Standard Drill Screws



# BLAZER Lo-PROFILE HD

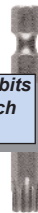


T-25 six-lobbed recess drive for high torque applications



Fine threads reduces drive torque in heavy gauge applications

Free six-lobbed bits included in each container!



Fine thread for heavy duty applications up to 10-gauge

**SIZES AND POINT TYPE**  
#10-24 x 5/8" DP3

**APPLICATIONS**  
Drilling and tapping up to .210" thick steel.

Head Type: Pancake Head (.085" thick)  
Drive Type: T-25 Six-Lobbed Recess  
Material: Carbon Steel  
Finish: .0003" Minimum Electro Zinc with yellow dichromate  
Corrosion Results: 48hrs Salt Spray

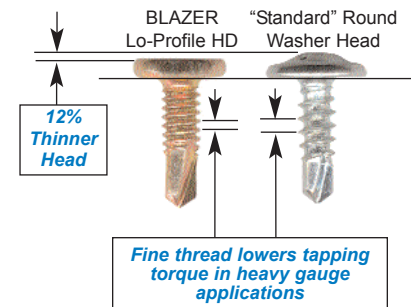


## Why BLAZER Lo-PROFILE HD?

**BLAZER Lo-Profile HD** (Heavy Duty) is designed for heavy gauge applications up to 10-gauge. The fine thread produces lower tapping torque and eliminates potential fastener failure due to excessive torque.

The six-lobbed recess drive system eliminates drive bit cam-out associated with phillips drives. Also provides exceptional bit life.

### Compare BLAZER ULTRA to Standard Drill Screws



**BLAZER ULTRA** are supplied in easy to handle Kwik-Pak 2-gal plastic containers!



Another "TFC Specific" Fastening System Solution!

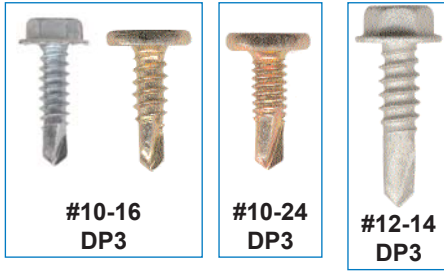


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Refer to the back for technical data

# PERFORMANCE RESULTS

## THREAD TYPES AND POINT TYPES



## Strengths of Fasteners (Minimum Ultimate)

Fastener Diameter	Torsional (Inch Lbs.)	Tensile (Pounds)	Shear (Pounds)
#10-16 (.190")	61	2100	1400
#10-24 (.190")	65	2350	1500
#12-14 (.216")	92	2778	2000

**BLAZER™** drill screws are manufactured and tested to SAE J-78 specification for self-drilling fasteners

## Pullout Values In Steel (Average Ultimate Pounds)

Steel Thkness	#10-16 DP3	#10-24 DP3	#12-14 DP3
26 ga	126	121	143
24 ga	208	200	215
22 ga	267	251	292
20 ga	295	333	343
18 ga	503	495	555
16 ga	710	701	752
14 ga	968	900	1066
12 ga	1476	1375	1634
3/16"		2612	2990

## Shear Values In Steel (Average Ultimate Pounds)

Steel Thkness (Lapped)	#10-16 DP3	#10-16 DP3	#12-14 DP3
24 ga	455	NA	
22 ga	526	NA	
20 ga	728	751	769
18 ga	1266	1208	1385
16 ga	1540	1554	1620
14 ga	1552	1694	1970
12 ga			1986

## Material Properties

<b>Material</b>	C1018 - C1022
<b>Heat Treatment</b>	Case Hardened
<b>Case Hardness</b>	Rockwell C 52-58
<b>Case Depth</b>	#10 and #12: .004" / .009"
<b>Core Hardness</b>	Rockwell C 32-40
<b>Ductility</b>	5 degrees min.

Disclaimer: All test results and specifications are based on laboratory tests. Appropriate safety factors should be used by the user or specifier. Determining the proper fastener is the responsibility of the user or specifier. Because application conditions vary, we assume no liability for the use of this information.

**We have the tools to meet your fastening system needs!**

## Hand Tools and Power Tools

### Electric Screwgun



RPM	P.N.	Recommended Use
0-1,000	DW269	18-8 SS Fasteners
0-2,000	DW267	1/4" and Heavy Gauge Drillers
0-2,500	DW268G	#6, #8, #10, #12 Drillers

We stock DeWalt, Bosch, Milwaukee, Porter Cable, and Matabo cordless and electric power tools, for sawing, drilling, grinding, shearing, and nibbling!

## Sockets, Bits and Nutsetters

### Insert Bits



For a variety of drives!  
Phillips: #1, #2, #3  
Square: #1, #2, #3  
Torx: T-20, T-25, T30  
Quadrex  
Tamperproof

### Bit Holders



Locking ring bit holder secures the bit and allows for quick change.

Magnetic bit holder.

### Snips



Description	P.N.
Cuts straight, left & right (yellow grips)	SN00Y
Cuts left & straight (red grips)	SN00RP
Cuts right & straight (green grips)	SN00GP

### Locking "C" Clamps



Jaw Description	P.N.
6"	CP6C
6" with swivel pads on jaws	CP6CSP
8"	CP11C
8" with swivel pads on jaws	CP11CSP

### Locking "Duckbill" Sheet Metal Clamps



Description	P.N.
8" for crimping & bending sheet metal	CP8C

### Magnetic Drive Sockets



Hex Size	Socket Lengths
1/4"	1-1/2", 2-1/4"
5/16"	1-1/2", 2-1/4"
3/8"	1-1/2", 2-1/2"
7/16"	1-1/2", 2-1/2"



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