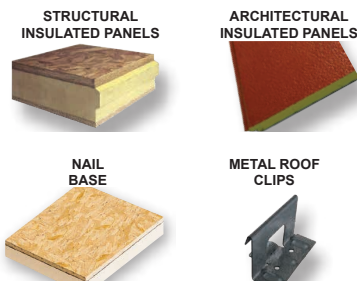


### 5/8" Head Diameter



- 5/8" diameter head increases pullover strength and minimizes dimpling.
- #3 Square Recess

### TYPICAL APPLICATIONS



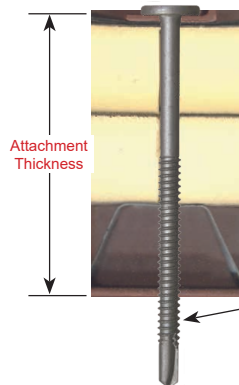
Use to attach a variety of material to steel up to 1/2" thick!

### 1/4-20 DP5 - Drill and tap up to 1/2" thick steel!

**1/4-20 DP5 CONCEALOR®** pancake head screws are designed for heavy gauge applications and can drill and tap up to 1/2" steel. This screw has special threads to reduce tapping torque.

Coated with TRI-SEAL™ long-life coating that exceeds ASTM B633 specifications providing 1,000-hours salt spray performance, and FM4470 per ASTM G87 Sulfur Dioxide Test.

	Description	DRIVE	ATTACHMENT THICKNESS	Part Number	Carton Quantity	Wt Per Carton
A	1/4-20 x 2" DP5	#3 Square	1" max	14200SPC5CSTS	1,000 pcs	23#
B	1/4-20 x 4" DP5	#3 Square	3" max	14400SPC5CSTS	500 pcs	21#
C	1/4-20 x 6" DP5	#3 Square	2" to 5"	14600SPC5CSTS	500 pcs	30#
D	1/4-20 x 8" DP5	#3 Square	4" to 7"	14800SPC5CSTS	250 pcs	21#



### Selecting the Screw Length

Measure from the top surface of the material being fastened to the underside of the metal. Be sure to allow for any void or insulation. This is called the **attachment thickness**.

Select a screw length on the size chart that falls within your **attachment thickness**.

*Minimum of three (3) full threads must extend beyond the material being fastened.*

### Physical Properties

Thread Diameter: 1/4" (.250" nominal)  
Thread Pitch: 20  
Head Diameter: .625"  
Head Thickness: .100"  
Material: C-1022  
Case Hardened per SAE J-78  
TRI-SEAL 1,000-hrs salt spray coating

### Drill and Tap Capacity Up to 1/2" thick steel.

**Note:** Tensile strength of the substrate will affect the tapping performance. It is recommended to use a 1,000 RPM max screw-gun for the best performance.



Fastener Diameter	Nominal Screw Diameter	Major Diameter (inch)		Minor Diameter (inch)		Area Of Minor Dia. (sq in.)	Torsional (Lb-in.)	Tensile (Pounds)	Shear (Pounds)
		Max	Min	Max	Min				
1/4-20	0.250	0.250	0.242	0.218	0.214	0.036	156	4,275	2,700

### Pullout Loads

The tensile strength of the substrate that is used in the chart below is typical for metal building and roofing applications. These values are calculated per AISI S100. Contact TFC if other substrate tensile strengths are required.

PULLOUT						
Grade 50 per ASTM A792/A653/A572/A529						
65Ksi Min. Steel						
Screw Size	Nom Dia. (in.)	1/8"	10 ga	1/4"	3/8"	1/2"
		(.125")	(.135")	(.250")	(.375")	(.500")
1/4-20	.250"	1,727	1,865	3,453	*5,180	*6,906

For allowable loads, please apply an appropriate Factor of Safety as required by local and national code requirements. AISI S100 Section E4 recommends a Factor of Safety of 3 for allowable loads.

**TOOLING:** Install using a 2,000 RPM screw-gun with torque control. (DeWalt DW267) Do not use impact tools.

All information is non-binding and without guarantee. Before using the products, all specifications and calculations must be checked by a suitably qualified person and local regulations must be observed. This document is subject to revision. We reserve the right to make technical changes. (0321-1)