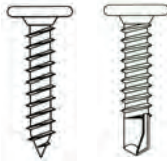


**Combination Drive
Pancake
(Low Profile)
Self-Drilling & Self-Tapping**

Specifications



Diameter: #10 & #12
Threads per inch: #10 (12,16) and #12 (11, 14)
Lengths: 3/4" Through 1-1/2"
Points: TCP3 and Type A
Material: Carbon Steel & 410 Stainless Steel
Finish: .0003 Min. Electro Zinc-Carbon Steel
 Passivated – 410 Stainless Steel

ENGINEERING TEST REPORT

For questions contact Technical Service: 1-800-321-6977

FASTENER STRENGTH

Fastener Diameter	Minimum Tensile	Minimum Torque	Minimum Shear
#10-16	1,550 lbs.	46 in. lbs.	1,050 lbs.
#10-12	1,700 lbs.	50 in. lbs.	1,175 lbs.
#12-14	2,100 lbs.	61 in. lbs.	1,400 lbs.
#12-11	2,400 lbs.	67 in. lbs.	1,700 lbs.

PULLOUT

Ultra Z with TCP Self-Drilling for Metal Applications

Fastener Diameter	12 Gauge (.105)	14 Gauge (.075)	16 Gauge (.060)	26 Gauge (.018)
10-16 TCP3	1477 lbs.	970 lbs.	711 lbs.	127 lbs.
12-14 TCP3	1634 lbs.	1066 lbs.	760 lbs.	145 lbs.



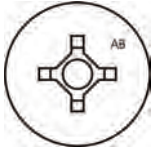
Self-Tapping for Wood Applications

Fastener Diameter	1/2" CDX	5/8" CDX	3/4 CDX	2" x 4" Pine
10-12 Type A	250 lbs.	325 lbs.	475 lbs.	825 lbs.
12-11 Type A	300 lbs.	375 lbs.	500 lbs.	900 lbs.



Note: Pull-out values are a measure of wood material strength. Inconsistencies in test material may result in variances in pull-out values.

DISCLAIMER: All test results and recommendations are based on laboratory tests. Specific job site conditions should be taken into consideration when specifying the proper fastener. Because applications may vary, we assume no liability for use of this information.



Combination #2 square phillips drive with innovative design that provides:

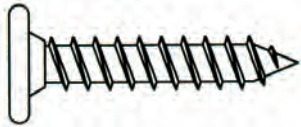
- **Greater torque during installation**
- **Tighter fit on driver bit**
- **Greater installation flexibility**



- **Low profile design provides added clearance for concealed fastener panel systems**
- **Slight countersunk underneath head creates a stronger fastener**
- **Available in TCP3, Type A point styles and Carbon & 410 Stainless Steel for corrosion protection**
- **Coarse threads provide secure fastening into wood**

WOOD APPLICATIONS

SELF-TAPPING FASTENERS



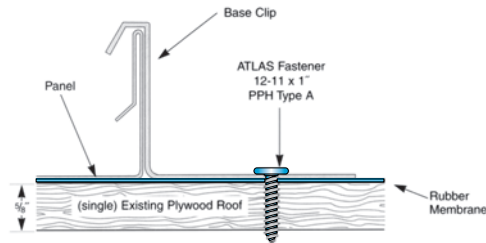
**WOOD DECK
RETROFIT APPLICATION
Base Clip to Structural**

CARBON STEEL

- #10-12 x 1 Type A Pancake Head
- #12-11 x 1 Type A Pancake Head

410 STAINLESS STEEL

- #10-12 X 1 Type A Pancake Head



METAL APPLICATIONS

**ULTRA-Z™ with TAPERED COMPRESSIONS POINT
SELF-DRILLING FASTENERS**



CARBON STEEL

- #12-11 x 1-1/4 Type AB Pancake Head
- #10-16 x 1 Ultra Z TCP3 Pancake Head
- #12-14 x 1 Ultra Z TCP3 Pancake Head

410 STAINLESS STEEL

- #12-14 x 1 Ultra Z TCP3 Pancake Head

100 Years of Designing, Engineering and Manufacturing Fasteners

Atlas Bolt & Screw Company – 1628 Troy Rd., Ashland, Ohio 44805

www.atlasfasteners.com