

# Buyers Guide

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## INTRODUCTION AND IMPORTANT INFORMATION

Powers Fasteners is the leading supplier of concrete and masonry anchors in North America and has been a leader in the fastening industry since 1921. Founded as the Rawlplug Company Inc, the Powers family changed the name to Powers Fasteners in 1996 as the company expanded internationally with operations overseas. Powers expansion into Australia, Asia and Europe dictated the name change from Rawlplug to Powers, a name which the Powers family owns worldwide. Powers is an ISO-9001 international anchoring products company with extensive expertise in the following product groups: Mechanical Anchors, Adhesive Anchoring Systems, Light Duty Anchors, Roofing Fasteners, Carbide Drill Bits, and powered forced-entry systems such as Powder Actuated, and Gas Fastening.

We are pleased to present to you our 2012-2013 Buyers Guide. This comprehensive catalog was developed for both distributors and contractors. This catalog contains the latest products and innovations in anchoring technology. This catalog should be a quick reference for ordering and for help in selecting the right anchor for your next fastening application. For technical data relating to any of the products contained in the catalog, we ask that you refer to our latest technical information or by visiting our website at [www.powers.com](http://www.powers.com).

### **[www.powers.com](http://www.powers.com)**

This site contains the most up-to-date product information including product approvals and listings, MSDS sheets, submittal packages, general product information, software tools, contact information, and copies of our newsletter 'Concrete Evidence'. These resources and programs combined with over thirty stocking locations throughout North America provide the best possible product and field support available in the post-installed anchoring industry.

If you should have any questions or feedback, please contact customer service at 1(800) 524-3244 or (914) 235-6300 or by email at [info@powers.com](mailto:info@powers.com).

### **Product Warranty Statement**

Powers Fasteners, Inc. will repair or replace, at its sole option, any product within 90 days after sale by Powers Fasteners, Inc. or its distributors, is found to be defective in material or workmanship, normal wear and tear excluded.

This warranty does not apply to products not used in compliance with published instructions, specific applications, installment procedures, modified products, defective substrate materials or deterioration due to environmental conditions.

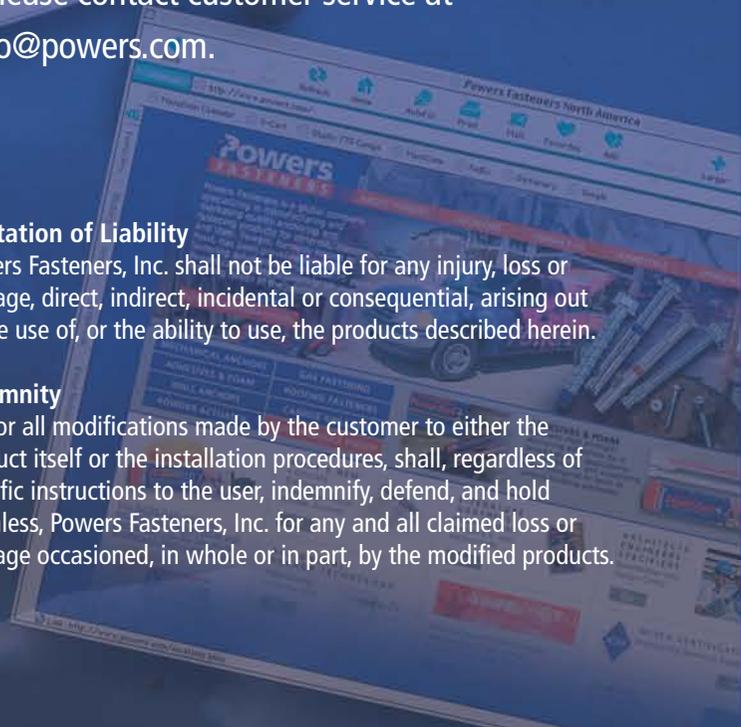
All warranties are expressed in lieu of other warranties, expressed or implied, including warranties of merchantability or fitness for a particular purpose, all such other warranties being hereby expressly excluded.

### **Limitation of Liability**

Powers Fasteners, Inc. shall not be liable for any injury, loss or damage, direct, indirect, incidental or consequential, arising out of the use of, or the ability to use, the products described herein.

### **Indemnity**

Any or all modifications made by the customer to either the product itself or the installation procedures, shall, regardless of specific instructions to the user, indemnify, defend, and hold harmless, Powers Fasteners, Inc. for any and all claimed loss or damage occasioned, in whole or in part, by the modified products.



|                                                   |     |                                            |       |                                    |    |
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## Why sell code approved anchors? It's now the LAW.

The 2003, 2006 or 2009 International Building or Residential Codes (IBC or IRC) have been adopted in 49 states and have adoptions by some local jurisdictions in the other state. The building codes serves as the basic design and enforcement requirements that an owner, engineer, contractor, inspector and code official use to produce safe structures today. It also applies to renovations to existent buildings requiring construction to current code. These structures include everything from condos, shopping malls, hospitals, schools and high-rise construction to ordinary home construction.

The 2006 and 2009 IBC and IRC specifically require anchors which meet the code AC-193 for Mechanical Anchors and AC-308 for Adhesive Anchors as an alternative to the building code through 104.11 in the IBC. In the near future ACI will be voting to add Adhesive Anchors to its standards in addition to mechanical anchors.

Since nearly all states have adopted the building code with enforcement, there are very significant ramifications for any contractor using products not compliant with the code. Compliance with the code is as simple as providing a Powers ICC-ES report or knowing that one exists when selling, specifying or using our product. Since Powers has so many ICC-ES reports for anchoring it is highly advantageous for a distributor to sell and stock only code listed products for structural applications. Powers also has numerous reports on products tested using an ICC-AS laboratory which with acceptance by a local inspector or building official will serve as proof of compliance.

**CODE LISTED**  
ICC-ES ESR-2818  
ICC-ES ESR-2966

Power-Stud+™  
SD1

**CODE LISTED**  
ICC-ES ESR-2502

Power-Stud+™  
SD2

**CODE LISTED**  
ICC-ES ESR-2526  
ICC-ES ESR-1678

Wedge-Bolt®+

**CODE LISTED**  
ICC-ES ESR-2272

Snake+™

**CODE LISTED**  
ICC-ES ESR-3067

Atomic+  
Undercut

**CODE LISTED**  
ICC-ES ESR-2989

Vertigo+®

**CODE LISTED**  
ICC-ES ESR-3068  
ICC-ES ESR-3042  
ICC-ES ESR-3213

Tapper+™



Construction distributors should be selling only anchors that comply with the new Building Codes since IBC and IRC are national codes. While the code does not apply to non-structural anchoring application such as light duty fastening to drywall, it does apply to applications which involve all the steel anchors and adhesive anchors purchased which are used every day by contractors of all types in structural applications.

There are several key reasons why everyone should be selling, specifying and using ONLY concrete anchors that are code listed:

- 1. Code listed anchors normally offers significantly higher performance.**
- 2. Powers can offer these products at a competitive cost and in a complete range.**
- 3. Compliance with state and local building authorities' regulations.**
- 4. Independent qualification and certification of product performance.**
- 5. Proof of usability and conformance in all 50 states.**
- 6. Usability and conformance in Florida and California (wind and seismic qualification).**
- 7. Increased product safety, reliability and confidence.**
- 8. Minimize risk for all applications (structural or non-structural).**

Specifications for building code compliant products are now the norm and enforcements of the codes is taking place. Those companies who don't sell, specify or use code compliant anchors will find less opportunities in the market.





|                         | Page               | Base Material |                      |                   |                               |                         |             |              |       |                      |      |       | Anchor Diameter |      |       |      |      |      |      | Head Style |               |            |                         |          |           | Coating/Material |             |                            |                         |                              |                          |                          |             |                  |               | Code Recognition |      |                                |                                              |
|-------------------------|--------------------|---------------|----------------------|-------------------|-------------------------------|-------------------------|-------------|--------------|-------|----------------------|------|-------|-----------------|------|-------|------|------|------|------|------------|---------------|------------|-------------------------|----------|-----------|------------------|-------------|----------------------------|-------------------------|------------------------------|--------------------------|--------------------------|-------------|------------------|---------------|------------------|------|--------------------------------|----------------------------------------------|
|                         |                    | Concrete      | Lightweight Concrete | Hollow Core Plank | Grout-filled Concrete Masonry | Hollow Concrete Masonry | Solid Brick | Hollow Brick | Stone | Structural Clay/Tile | Wood | Steel | 3/16"           | 1/4" | 5/16" | 8 mm | 3/8" | 1/2" | 5/8" | 3/4"       | Mushroom Head | Round Head | Flat Head (Countersunk) | Tie-Wire | Removable | Tamperproof      | Flush Mount | Coated/Plated Carbon Steel | Galvanized Carbon Steel | Type 303/304 Stainless Steel | Type 316 Stainless Steel | Type 410 Stainless Steel | Zamac Alloy | Perm-Seal Coated | Nylon/Plastic |                  | Lead |                                |                                              |
| Bolt and Shield Anchors | Snake+             | 16            | ●                    | ●                 | ○                             | ○                       |             |              |       |                      |      |       | ●               |      | ●     | ●    |      |      |      |            |               |            |                         |          |           | ●                | ●           |                            |                         |                              |                          |                          |             |                  |               |                  |      |                                | Code Listed<br>ICC-ES ESR-2272<br>LARR-25810 |
|                         | Smart DI+          | 17            | ●                    | ○                 |                               |                         |             |              | ○     |                      |      |       | ●               |      | ●     | ●    | ●    | ●    |      |            |               |            |                         |          |           |                  | ●           | ●                          |                         |                              |                          |                          |             |                  |               |                  |      |                                |                                              |
|                         | Hollow-Set Dropin  | 17            | ●                    | ○                 | ●                             | ●                       | ●           | ●            | ○     | ○                    |      |       | ●               | ●    | ●     | ●    | ●    |      |      |            |               |            |                         |          |           |                  | ●           | ●                          | ●                       |                              |                          |                          | ●           |                  |               |                  |      |                                |                                              |
|                         | Steel Dropin       | 18            | ●                    | ●                 |                               |                         |             |              | ○     |                      |      |       | ●               |      | ●     | ●    | ●    | ●    |      |            |               |            |                         |          |           |                  | ●           | ●                          | ●                       | ●                            |                          |                          |             |                  |               |                  |      |                                |                                              |
|                         | Mini Dropin        | 18            | ●                    | ●                 | ●                             | ○                       |             |              | ○     |                      |      |       | ●               |      | ●     | ●    |      |      |      |            |               |            |                         |          |           |                  | ●           | ●                          |                         |                              |                          |                          |             |                  |               |                  |      |                                |                                              |
|                         | Double             | 18            | ●                    | ○                 |                               | ○                       | ●           | ●            | ○     |                      |      |       | ●               | ●    | ●     | ●    | ●    | ●    |      |            |               |            |                         |          |           |                  | ●           |                            |                         |                              |                          | ●                        |             |                  |               |                  |      |                                |                                              |
|                         | Single             | 19            | ●                    | ○                 |                               | ○                       | ○           | ○            | ○     |                      |      |       | ●               | ●    | ●     | ●    | ●    |      |      |            |               |            |                         |          |           |                  | ●           |                            |                         |                              |                          | ●                        |             |                  |               |                  |      |                                |                                              |
|                         | Calk-In            | 19            | ●                    | ○                 |                               | ●                       | ○           | ●            | ○     | ○                    |      |       | ●               | ●    | ●     | ●    | ●    |      |      |            |               |            |                         |          |           |                  | ●           |                            |                         |                              |                          | ●                        |             |                  |               | ●                |      |                                |                                              |
|                         | Lag-Shield         | 19            | ●                    | ○                 |                               | ○                       | ●           | ●            | ○     | ○                    |      |       | ●               | ●    | ●     | ●    | ●    | ●    |      |            |               |            |                         |          |           |                  | ●           |                            |                         |                              |                          | ●                        |             |                  |               |                  |      |                                |                                              |
| Heli-Pin                | 19                 | ●             | ○                    |                   | ●                             | ●                       | ●           | ○            |       | ●                    | ●    |       | ●               | ●    |       |      |      |      |      |            |               |            |                         |          |           |                  | ●           |                            |                         |                              |                          |                          |             |                  |               |                  |      |                                |                                              |
| Pin Anchors             | Spike              | 21            | ●                    | ●                 |                               | ●                       | ○           | ○            |       |                      |      | ●     | ●               |      | ●     | ●    |      |      |      | ●          | ●             | ●          | ●                       |          |           | ●                |             | ●                          |                         |                              |                          |                          |             |                  |               |                  |      |                                |                                              |
|                         | Drive              | 22            | ●                    | ○                 |                               | ○                       | ○           | ○            |       |                      |      | ●     | ●               |      | ●     | ●    |      |      |      |            | ●             | ●          | ●                       | ●        |           |                  | ●           |                            |                         |                              |                          |                          |             |                  |               |                  |      |                                |                                              |
| Nail Anchors            | Safe-T+ Pin        | 23            | ●                    | ●                 |                               | ●                       | ●           | ○            |       |                      |      | ●     |                 |      |       |      |      |      |      | ●          |               |            |                         |          |           |                  |             |                            |                         |                              |                          |                          |             |                  |               |                  |      | Code Listed<br>ICC-ES ESR-3057 |                                              |
|                         | Zamac Hammer-Screw | 23            | ●                    | ○                 | ○                             | ○                       | ●           | ●            | ○     | ○                    |      | ●     |                 |      |       |      |      |      |      | ●          |               | ●          |                         |          |           | ●                |             |                            |                         | ●                            | ●                        |                          |             |                  |               |                  |      |                                |                                              |
|                         | Zamac Nailin       | 23            | ●                    | ○                 | ○                             | ○                       | ●           | ●            | ○     | ○                    |      | ●     | ●               |      |       |      |      |      |      | ●          | ●             |            | ●                       |          |           | ●                | ●           |                            |                         | ●                            |                          |                          |             |                  |               |                  |      |                                |                                              |
|                         | Nylon Nailin       | 24            | ●                    | ○                 | ○                             | ○                       | ●           | ●            | ○     | ○                    |      | ●     | ●               |      |       |      |      |      |      | ●          | ●             | ●          |                         |          |           | ●                | ●           |                            |                         | ●                            |                          |                          |             |                  | ●             |                  |      |                                |                                              |

- Suitable
- May be Suitable



### PB+ (Power-Bolt+)

Heavy-Duty Sleeve Anchor

BASE MATERIAL

Concrete

SIZE RANGE

1/2" x 2-3/4" to 5/8" x 8-1/2"

ANCHOR MATERIAL

Carbon Steel

The PB+ anchor is a torque controlled, heavy duty sleeve style anchor which is designed for consistent performance in cracked and uncracked concrete. It is available with a finished hex head.

Carbon steel PB+ anchors are manufactured using a Grade 8 bolt. They are plated with a commercial bright zinc finish and have a supplementary chromate treatment in accordance with ASTM B 633.

| CARBON STEEL HEX HEAD PB+ |               |            |          |           |  |
|---------------------------|---------------|------------|----------|-----------|--|
| CAT. NO.                  | SIZE          | DRILL DIA. | STD. BOX | STD. CTN. |  |
| 6930SD*                   | 1/2" x 2-3/4" | 1/2"       | 50       | 200       |  |
| 6932SD                    | 1/2" x 3-1/2" | 1/2"       | 50       | 200       |  |
| 6934SD                    | 1/2" x 4-3/4" | 1/2"       | 25       | 200       |  |
| 6936SD                    | 1/2" x 5-3/4" | 1/2"       | 25       | 150       |  |
| 6940SD*                   | 5/8" x 3"     | 5/8"       | 20       | 150       |  |
| 6942SD                    | 5/8" x 4"     | 5/8"       | 15       | 120       |  |
| 6944SD                    | 5/8" x 5"     | 5/8"       | 15       | 90        |  |
| 6945SD                    | 5/8" x 6"     | 5/8"       | 15       | 90        |  |
| 6947SD                    | 5/8" x 8-1/2" | 5/8"       | 10       | 40        |  |

\*Asterisked catalog numbers denote sizes which are less than the minimum standard anchor length for strength design. The published size includes diameter and overall length of the anchor.



### Power-Bolt®

Heavy-Duty Sleeve Anchor

BASE MATERIAL

Concrete, Block, Brick, Stone

SIZE RANGE

1/4" x 1" to 3/4" x 8-1/4"

ANCHOR MATERIAL

Carbon Steel & Type 304 Stainless Steel

The Power-Bolt anchor is a heavy duty sleeve style anchor which is vibration resistant and removable. It is available with a finished hex head or flat head with a hex key insert and can be used in concrete, block, brick, or stone.

Carbon steel Power-Bolt anchors are manufactured using a Grade 5 bolt. They are plated with a commercial bright zinc finish and have a supplementary chromate treatment in accordance with ASTM Specification B 633.

| CARBON STEEL HEX HEAD POWER-BOLT |                |            |            |          |           |
|----------------------------------|----------------|------------|------------|----------|-----------|
| CAT. NO.                         | SIZE           | DRILL DIA. | MIN. DEPTH | STD. BOX | STD. CTN. |
| 6900*                            | 1/4" x 1"      | 1/4"       | 7/8"       | 100      | 600       |
| 6902*                            | 1/4" x 1-3/4"  | 1/4"       | 1-1/4"     | 100      | 600       |
| 6906*                            | 1/4" x 3"      | 1/4"       | 1-1/4"     | 100      | 600       |
| 6907*                            | 5/16" x 1-3/4" | 5/16"      | 1-1/2"     | 100      | 600       |
| 6908*                            | 5/16" x 2-1/2" | 5/16"      | 1-1/2"     | 50       | 300       |
| 6909*                            | 5/16" x 3-1/2" | 5/16"      | 1-1/2"     | 50       | 300       |
| 6910                             | 3/8" x 2-1/4"  | 3/8"       | 2"         | 50       | 300       |
| 6911**                           | 3/8" x 1-7/8"  | 3/8"       | 1-1/4"     | 50       | 300       |
| 6913                             | 3/8" x 3"      | 3/8"       | 2"         | 50       | 300       |
| 6914                             | 3/8" x 3-1/2"  | 3/8"       | 2"         | 50       | 300       |
| 6916                             | 3/8" x 4"      | 3/8"       | 2"         | 50       | 300       |
| 6930†                            | 1/2" x 2-3/4"  | 1/2"       | 2-1/2"     | 50       | 200       |
| 6932†                            | 1/2" x 3-3/4"  | 1/2"       | 2-1/2"     | 25       | 150       |

| CAT. NO. | SIZE          | DRILL DIA. | MIN. DEPTH | STD. BOX | STD. CTN. |
|----------|---------------|------------|------------|----------|-----------|
| 6934†    | 1/2" x 4-3/4" | 1/2"       | 2-1/2"     | 25       | 150       |
| 6936†    | 1/2" x 5-3/4" | 1/2"       | 2-1/2"     | 25       | 150       |
| 6940†    | 5/8" x 3"     | 5/8"       | 2-3/4"     | 20       | 120       |
| 6942†    | 5/8" x 4"     | 5/8"       | 2-3/4"     | 15       | 90        |
| 6944†    | 5/8" x 5"     | 5/8"       | 2-3/4"     | 15       | 90        |
| 6945†    | 5/8" x 6"     | 5/8"       | 2-3/4"     | 15       | 90        |
| 6947†    | 5/8" x 8-1/2" | 5/8"       | 2-3/4"     | 10       | 40        |
| 6950     | 3/4" x 3-1/4" | 3/4"       | 3"         | 15       | 90        |
| 6952     | 3/4" x 4-1/4" | 3/4"       | 3"         | 10       | 60        |
| 6954     | 3/4" x 5-1/4" | 3/4"       | 3"         | 10       | 60        |
| 6956     | 3/4" x 7-1/4" | 3/4"       | 3"         | 10       | 40        |
| 6957     | 3/4" x 8-1/4" | 3/4"       | 3"         | 10       | 40        |

The published length is measured from below the washer to the end of the anchor. \*1/4" and 5/16" Power-Bolt utilize a grade 8 bolt \*\* This size does not have a compression ring. †Discontinued item once current stock is depleted.

Stainless steel Power-Bolt anchors are manufactured from 300 series stainless steel (passivated).

| 304 STAINLESS STEEL HEX HEAD POWER-BOLT |               |            |            |          |           |
|-----------------------------------------|---------------|------------|------------|----------|-----------|
| CAT. NO.                                | SIZE          | DRILL DIA. | MIN. DEPTH | STD. BOX | STD. CTN. |
| 5900**                                  | 1/4" x 1"     | 1/4"       | 7/8"       | 100      | 600       |
| 5902                                    | 1/4" x 1-3/4" | 1/4"       | 1-1/4"     | 100      | 600       |
| 5906                                    | 1/4" x 3"     | 1/4"       | 1-1/4"     | 100      | 600       |
| 5910                                    | 3/8" x 2-1/4" | 3/8"       | 2"         | 50       | 300       |
| 5914                                    | 3/8" x 3-1/2" | 3/8"       | 2"         | 50       | 300       |
| 5916                                    | 3/8" x 4"     | 3/8"       | 2"         | 50       | 300       |
| 5930                                    | 1/2" x 2-3/4" | 1/2"       | 2-1/2"     | 50       | 200       |
| 5934                                    | 1/2" x 4-3/4" | 1/2"       | 2-1/2"     | 25       | 150       |

\*\* This size does not have a compression ring. The published length is measured from below the washer to the end of the anchor.



### Carbon Steel Flat Head Power-Bolt®

The flat head Power-Bolt anchor has a hex key insert formed in the head of the bolt. Each box contains an Allen wrench which matches the insert size.

| CAT. NO. | SIZE          | DRILL DIA. | MIN. DEPTH | STD. BOX | STD. CTN. |
|----------|---------------|------------|------------|----------|-----------|
| 6981     | 3/8" x 3-3/4" | 3/8"       | 2"         | 50       | 300       |
| 6982     | 3/8" x 5"     | 3/8"       | 2"         | 50       | 300       |
| 6983     | 3/8" x 6"     | 3/8"       | 2"         | 50       | 300       |
| 6984     | 1/2" x 5"     | 1/2"       | 2-1/2"     | 25       | 150       |
| 6987     | 5/8" x 5-1/2" | 5/8"       | 2-3/4"     | 15       | 90        |

The published length is the overall length of the anchor.



**CODE LISTED**  
ICC-ES ESR-2818

**CODE LISTED**  
ICC-ES ESR-2966

**CITY OF LOS ANGELES**  
LARR-25787 (Concrete)

**CITY OF LOS ANGELES**  
LARR-25864 (Masonry)

### Power-Stud+™ SD1

Wedge Type Expansion Anchor

BASE MATERIAL

Normal-Weight Concrete, Structural Sand-Lightweight Concrete, Concrete over Metal Deck, Grout-Filled Masonry

SIZE RANGE

1/4" diameter (uncracked concrete), 3/8" diameter through 1-1/4" diameter (cracked and uncracked concrete)

ANCHOR MATERIAL

Zinc Plated Carbon Steel Body and Expansion Clip, with Nut and Washer

The Power-Stud+ SD1 anchor is a fully threaded, torque-controlled, wedge expansion anchor which is designed for consistent performance in cracked and

uncracked concrete. Suitable base materials include normal-weight concrete, structural sand-lightweight concrete and concrete over metal deck. The anchor is manufactured with a zinc plated carbon steel body and expansion clip.

Patented & Additional Patents Pending

| POWER-STUD+ SD1 CARBON STEEL BODY & EXPANSION CLIP |               |               |          |           |
|----------------------------------------------------|---------------|---------------|----------|-----------|
| CAT. NO.                                           | SIZE          | THREAD LENGTH | STD. BOX | STD. CTN. |
| 7400SD1*                                           | 1/4" x 1-3/4" | 3/4"          | 100      | 600       |
| 7402SD1                                            | 1/4" x 2-1/4" | 1-1/4"        | 100      | 600       |
| 7404SD1                                            | 1/4" x 3-1/4" | 2-1/4"        | 100      | 600       |
| 7410SD1*                                           | 3/8" x 2-1/4" | 7/8"          | 50       | 300       |
| 7412SD1*                                           | 3/8" x 2-3/4" | 1-3/8"        | 50       | 300       |
| 7413SD1                                            | 3/8" x 3"     | 1-5/8"        | 50       | 300       |
| 7414SD1                                            | 3/8" x 3-1/2" | 2-1/8"        | 50       | 300       |
| 7415SD1                                            | 3/8" x 3-3/4" | 2-3/8"        | 50       | 300       |
| 7416SD1                                            | 3/8" x 5"     | 3-5/8"        | 50       | 300       |
| 7417SD1                                            | 3/8" x 7"     | 5-5/8"        | 50       | 200       |
| 7420SD1*                                           | 1/2" x 2-3/4" | 1"            | 50       | 200       |
| 7422SD1                                            | 1/2" x 3-3/4" | 2"            | 50       | 200       |
| 7423SD1                                            | 1/2" x 4-1/2" | 2-3/4"        | 50       | 200       |
| 7424SD1                                            | 1/2" x 5-1/2" | 3-3/4"        | 50       | 150       |
| 7426SD1                                            | 1/2" x 7"     | 5-1/4"        | 25       | 100       |
| 7427SD1                                            | 1/2" x 8-1/2" | 6-3/4"        | 25       | 100       |
| 7428SD1                                            | 1/2" x 10"    | 8-1/4"        | 25       | 100       |
| 7430SD1*                                           | 5/8" x 3-1/2" | 1-1/2"        | 25       | 100       |
| 7432SD1                                            | 5/8" x 4-1/2" | 2-1/2"        | 25       | 100       |
| 7433SD1                                            | 5/8" x 5"     | 3"            | 25       | 100       |
| 7434SD1                                            | 5/8" x 6"     | 4"            | 25       | 75        |
| 7436SD1                                            | 5/8" x 7"     | 5"            | 25       | 75        |
| 7438SD1                                            | 5/8" x 8-1/2" | 6-1/2"        | 25       | 50        |
| 7439SD1                                            | 5/8" x 10"    | 8"            | 25       | 50        |
| 7440SD1*                                           | 3/4" x 4-1/4" | 1-3/4"        | 20       | 60        |
| 7441SD1*                                           | 3/4" x 4-3/4" | 2-1/4"        | 20       | 60        |
| 7442SD1                                            | 3/4" x 5-1/2" | 3"            | 20       | 60        |
| 7444SD1                                            | 3/4" x 6-1/4" | 3-3/4"        | 20       | 60        |
| 7446SD1                                            | 3/4" x 7"     | 4-1/2"        | 20       | 20        |
| 7448SD1                                            | 3/4" x 8-1/2" | 6"            | 10       | 60        |
| 7449SD1                                            | 3/4" x 10"    | 7-1/2"        | 10       | 40        |
| 7451SD1                                            | 3/4" x 12"    | 9-1/2"        | 10       | 40        |
| 7450SD1*                                           | 7/8" x 6"     | 2-3/4"        | 10       | 40        |
| 7452SD1                                            | 7/8" x 8"     | 4-3/4"        | 10       | 40        |
| 7454SD1                                            | 7/8" x 10"    | 6-3/4"        | 10       | 40        |
| 7461SD1*                                           | 1" x 6"       | 2-3/8"        | 10       | 30        |
| 7463SD1                                            | 1" x 9"       | 5-3/8"        | 10       | 30        |
| 7465SD1                                            | 1" x 12"      | 8-3/8"        | 5        | 20        |
| 7473SD1                                            | 1-1/4" x 9"   | 4-3/4"        | 5        | 15        |
| 7475SD1                                            | 1-1/4" x 12"  | 7-3/4"        | 5        | 15        |

\* Sizes which are less than the minimum standard anchor length for strength design. The published length is the overall length of the anchor. Allow for fixture thickness plus one anchor diameter for the nut and washer thickness when selecting a length. All anchors are packaged with nuts and washers.



**CODE LISTED**  
ICC-ES ESR-2502

**CITY OF LOS ANGELES**  
LARR-25831 (Concrete)

**Power-Stud+™ SD2**  
Wedge Type Expansion Anchor

BASE MATERIAL  
Normal-Weight Concrete, Structural Sand-Lightweight Concrete, Concrete over Metal Deck, Grout-Filled Masonry

SIZE RANGE  
3/8" through 3/4" diameter (Cracked and Uncracked Concrete)

ANCHOR MATERIAL  
Zinc Plated Carbon Steel Body with Stainless Steel Expansion Clip

The Power-Stud+ SD2 anchor is a fully threaded, torque-controlled, wedge expansion anchor which is designed for consistent performance in cracked and uncracked concrete. Suitable base materials include normal-weight concrete, structural sand-lightweight concrete and concrete over metal deck. The anchor is manufactured with a zinc plated carbon steel body and stainless steel expansion clip for premium performance.

Patented & Additional Patents Pending

| POWER-STUD+ SD2 CARBON STEEL BODY & SS EXPANSION CLIP |               |               |          |           |
|-------------------------------------------------------|---------------|---------------|----------|-----------|
| CAT. NO.                                              | SIZE          | THREAD LENGTH | STD. BOX | STD. CTN. |
| 7413SD2                                               | 3/8" x 3"     | 1-5/8"        | 50       | 300       |
| 7414SD2                                               | 3/8" x 3-1/2" | 2-1/4"        | 50       | 300       |
| 7415SD2                                               | 3/8" x 3-3/4" | 2-1/2"        | 50       | 300       |
| 7416SD2                                               | 3/8" x 5"     | 3-3/4"        | 50       | 300       |
| 7422SD2                                               | 1/2" x 3-3/4" | 2-1/8"        | 50       | 200       |
| 423SD2                                                | 1/2" x 4-1/2" | 2-7/8"        | 50       | 200       |
| 7424SD2                                               | 1/2" x 5-1/2" | 3-7/8"        | 50       | 150       |
| 7426SD2                                               | 1/2" x 7"     | 5-3/8"        | 25       | 100       |
| 7427SD2                                               | 1/2" x 8-1/2" | 6-7/8"        | 25       | 100       |
| 7435SD2                                               | 5/8" x 4-3/4" | 2-7/8"        | 25       | 100       |
| 7433SD2                                               | 5/8" x 5"     | 3-1/8"        | 25       | 100       |
| 7434SD2                                               | 5/8" x 6"     | 4-1/8"        | 25       | 75        |
| 7436SD2                                               | 5/8" x 7"     | 5-1/8"        | 25       | 75        |
| 7438SD2                                               | 5/8" x 8-1/2" | 6-5/8"        | 25       | 75        |
| 7442SD2                                               | 3/4" x 5-1/2" | 3-1/4"        | 20       | 60        |
| 7444SD2                                               | 3/4" x 6-1/4" | 4"            | 20       | 60        |
| 7446SD2                                               | 3/4" x 7"     | 4-3/4"        | 20       | 60        |
| 7448SD2                                               | 3/4" x 8-1/2" | 6-1/4"        | 10       | 60        |

The published length is the overall length of the anchor. Allow for fixture thickness plus one anchor diameter for the nut and washer thickness when selecting a length. All anchors are packaged with nuts and washers.



INSTALLATION ACCESSORIES FOR ADDITIONAL LENGTH

| CAT. NO. | SIZE                                                                 | STD. BOX |
|----------|----------------------------------------------------------------------|----------|
| 08465    | Adjustable torque wrench with 1/2" square drive (10 to 150 ft.-lbs.) | 1        |

**Power-Stud® HD5**  
Wedge Type Expansion Anchor



BASE MATERIAL  
Concrete, Grouted CMU

SIZE RANGE  
3/8" x 3" to 3/4" x 8-1/2"

ANCHOR MATERIAL  
Hot Dipped Galvanized Steel

The Power-Stud anchor is a one piece fully threaded, wedge style anchor available in carbon steel and stainless steel. The drill bit diameter needed for proper installation is the same nominal size as the anchor diameter.

Hot Dipped Galvanized Power-Stud anchors are manufactured from carbon steel which have a mechanically galvanized coating (zinc) in accordance with ASTM Specification B 695, Class 65, Type I.



HOT DIPPED GALVANIZED POWER-STUD

| CAT. NO. | SIZE          | MIN. EMBED. | THREAD LENGTH | STD. BOX | STD. CTN. |
|----------|---------------|-------------|---------------|----------|-----------|
| 7720HD5  | 1/2" x 2-3/4" | 2"          | 2"            | 50       | 200       |
| 7722HD5  | 1/2" x 3-3/4" | 2"          | 2-7/8"        | 50       | 200       |
| 7723HD5  | 1/2" x 4-1/2" | 2"          | 3-5/8"        | 50       | 200       |
| 7724HD5  | 1/2" x 5-1/2" | 2"          | 6-5/8"        | 50       | 150       |
| 7726HD5  | 1/2" x 7"     | 2"          | 2-3/4"        | 25       | 100       |
| 7730HD5  | 5/8" x 3-1/2" | 2-3/8"      | 4-3/4"        | 25       | 100       |
| 7733HD5  | 5/8" x 5"     | 2-3/8"      | 3"            | 25       | 100       |
| 7734HD5  | 5/8" x 6"     | 2-3/8"      | 4"            | 25       | 75        |
| 7738HD5  | 5/8" x 8-1/2" | 2-3/8"      | 6-1/2"        | 25       | 50        |

**Power-Stud®**  
Wedge Type Expansion Anchor

BASE MATERIAL  
Concrete, Grouted CMU

SIZE RANGE  
1/4" x 1-3/4" to 1-1/4" x 12"

ANCHOR MATERIAL  
Carbon Steel, Type 304 or 316 Stainless Steel, & Mechanically Galvanized Carbon Steel

The Power-Stud anchor is a one piece fully threaded, wedge style anchor available in carbon steel and stainless steel. Threaded, Rod Hanger and Tie-Wire versions are designed for use in solid concrete. The drill bit diameter needed for proper installation is the same nominal size as the anchor diameter.



Mechanically Galvanized Power-Stud anchors are manufactured from carbon steel which have a mechanically galvanized coating (zinc) in accordance with ASTM Specification B 695, Class 65, Type I.

| MECHANICALLY GALVANIZED POWER-STUD |               |             |               |          |           |  |
|------------------------------------|---------------|-------------|---------------|----------|-----------|--|
| CAT. NO.                           | SIZE          | MIN. EMBED. | THREAD LENGTH | STD. BOX | STD. CTN. |  |
| 7720*                              | 1/2" x 2-3/4" | 2-1/4"      | 1-3/8"        | 50       | 200       |  |
| 7723*                              | 1/2" x 4-1/2" | 2-1/4"      | 3-1/8"        | 50       | 200       |  |
| 7724*                              | 1/2" x 5-1/2" | 2-1/4"      | 4-1/8"        | 50       | 150       |  |
| 7726*                              | 1/2" x 7"     | 2-1/4"      | 5-5/8"        | 25       | 100       |  |
| 7730*                              | 5/8" x 3-1/2" | 2-3/4"      | 2"            | 25       | 100       |  |
| 7734*                              | 5/8" x 6"     | 2-3/4"      | 4-1/2"        | 25       | 75        |  |
| 7741                               | 3/4" x 4-3/4" | 3-3/8"      | 2-7/8"        | 20       | 60        |  |
| 7742                               | 3/4" x 5-1/2" | 3-3/8"      | 3-5/8"        | 20       | 60        |  |
| 7748                               | 3/4" x 8-1/2" | 3-3/8"      | 6-5/8"        | 10       | 40        |  |
| 7750                               | 7/8" x 6"     | 3-7/8"      | 2-3/4"        | 10       | 40        |  |
| 7752                               | 7/8" x 8"     | 3-7/8"      | 4-3/4"        | 10       | 40        |  |
| 7763                               | 1" x 9"       | 4-1/2"      | 5-3/8"        | 10       | 30        |  |

\* Discontinued item once current stock depleted.



| TIE-WIRE POWER-STUD |           |                    |             |          |           |
|---------------------|-----------|--------------------|-------------|----------|-----------|
| CAT. NO.            | SIZE      | TIE-WIRE HOLE SIZE | MIN. EMBED. | STD. BOX | STD. CTN. |
| 7409SD1             | 1/4" x 2" | 9/32"              | 1-1/8"      | 100      | 500       |



| ROD HANGER POWER-STUD |          |               |            |             |              |          |           |
|-----------------------|----------|---------------|------------|-------------|--------------|----------|-----------|
| CAT. NO.              | ROD SIZE | ANCHOR SIZE   | DRILL DIA. | MIN. EMBED. | THREAD DEPTH | STD. BOX | STD. CTN. |
| 7806                  | 3/8"     | 1/2" x 2-3/8" | 1/2"       | 2-1/4"      | 9/16"        | 50       | 250       |



Stainless Steel Power-Stud anchors are manufactured from AISI Type 304 / 304 Cu and Type 316 stainless steel which is passivated.

| TYPE 304 STAINLESS STEEL POWER-STUD |               |             |               |          |           |  |
|-------------------------------------|---------------|-------------|---------------|----------|-----------|--|
| CAT. NO.                            | SIZE          | MIN. EMBED. | THREAD LENGTH | STD. BOX | STD. CTN. |  |
| 7300                                | 1/4" x 1-3/4" | 1-1/8"      | 3/4"          | 100      | 500       |  |
| 7302                                | 1/4" x 2-1/4" | 1-1/8"      | 1-1/4"        | 100      | 500       |  |
| 7304                                | 1/4" x 3-1/4" | 1-1/8"      | 2-1/4"        | 100      | 500       |  |
| 7310                                | 3/8" x 2-1/4" | 1-5/8"      | 1-1/4"        | 50       | 250       |  |
| 7312                                | 3/8" x 2-3/4" | 1-5/8"      | 1-5/8"        | 50       | 250       |  |
| 7313                                | 3/8" x 3"     | 1-5/8"      | 1-7/8"        | 50       | 250       |  |
| 7314                                | 3/8" x 3-1/2" | 1-5/8"      | 2-3/8"        | 50       | 250       |  |
| 7315                                | 3/8" x 3-3/4" | 1-5/8"      | 2-5/8"        | 50       | 250       |  |
| 7316                                | 3/8" x 5"     | 1-5/8"      | 3-1/8"        | 50       | 250       |  |
| 7320                                | 1/2" x 2-3/4" | 2-1/4"      | 1-3/8"        | 50       | 200       |  |
| 7322                                | 1/2" x 3-3/4" | 2-1/4"      | 2-3/8"        | 50       | 200       |  |
| 7323                                | 1/2" x 4-1/2" | 2-1/4"      | 3-1/8"        | 50       | 200       |  |
| 7324                                | 1/2" x 5-1/2" | 2-1/4"      | 4-1/8"        | 50       | 150       |  |

| CAT. NO. | SIZE          | MIN. EMBED. | THREAD LENGTH | STD. BOX | STD. CTN. |
|----------|---------------|-------------|---------------|----------|-----------|
| 7326     | 1/2" x 7"     | 2-1/4"      | 5-5/8"        | 25       | 100       |
| 7330     | 5/8" x 3-1/2" | 2-3/4"      | 2"            | 25       | 100       |
| 7332     | 5/8" x 4-1/2" | 2-3/4"      | 3"            | 25       | 100       |
| 7333     | 5/8" x 5"     | 2-3/4"      | 3-1/2"        | 25       | 100       |
| 7334     | 5/8" x 6"     | 2-3/4"      | 4-1/2"        | 25       | 75        |
| 7336     | 5/8" x 7"     | 2-3/4"      | 5-1/2"        | 25       | 75        |
| 7338     | 5/8" x 8-1/2" | 2-3/4"      | 7"            | 25       | 75        |
| 7340     | 3/4" x 4-1/4" | 3-3/8"      | 2-3/8"        | 20       | 60        |
| 7341     | 3/4" x 4-3/4" | 3-3/8"      | 2-7/8"        | 20       | 60        |
| 7342     | 3/4" x 5-1/2" | 3-3/8"      | 3-5/8"        | 20       | 60        |
| 7344     | 3/4" x 6-1/4" | 3-3/8"      | 4-3/8"        | 20       | 60        |
| 7346     | 3/4" x 7"     | 3-3/8"      | 5-1/8"        | 20       | 60        |
| 7348     | 3/4" x 8-1/2" | 3-3/8"      | 6-5/8"        | 10       | 40        |
| 7349     | 3/4" x 10"    | 3-3/8"      | 8-1/8"        | 10       | 30        |
| 7352     | 7/8" x 8"     | 3-7/8"      | 4-3/4"        | 10       | 40        |
| 7361     | 1" x 6"       | 4-1/2"      | 2-3/8"        | 10       | 30        |
| 7363     | 1" x 9"       | 4-1/2"      | 5-3/8"        | 10       | 30        |
| 7365     | 1" x 12"      | 4-1/2"      | 8-3/8"        | 5        | 15        |

The published length is the overall length of the anchor. Allow for fixture thickness plus one anchor diameter for the nut and washer thickness when selecting a length.



| TYPE 316 STAINLESS STEEL POWER-STUD |               |             |               |          |           |  |
|-------------------------------------|---------------|-------------|---------------|----------|-----------|--|
| CAT. NO.                            | SIZE          | MIN. EMBED. | THREAD LENGTH | STD. BOX | STD. CTN. |  |
| 7600                                | 1/4" x 1-3/4" | 1-1/8"      | 3/4"          | 100      | 500       |  |
| 7602                                | 1/4" x 2-1/4" | 1-1/8"      | 1-1/4"        | 100      | 500       |  |
| 7604                                | 1/4" x 3-1/4" | 1-1/8"      | 2-1/4"        | 100      | 500       |  |
| 7610                                | 3/8" x 2-1/4" | 1-5/8"      | 1-1/4"        | 50       | 250       |  |
| 7612                                | 3/8" x 2-3/4" | 1-5/8"      | 1-5/8"        | 50       | 250       |  |
| 7613                                | 3/8" x 3"     | 1-5/8"      | 1-7/8"        | 50       | 250       |  |
| 7614                                | 3/8" x 3-1/2" | 1-5/8"      | 2-3/8"        | 50       | 250       |  |
| 7615                                | 3/8" x 3-3/4" | 1-5/8"      | 2-5/8"        | 50       | 250       |  |
| 7616                                | 3/8" x 5"     | 1-5/8"      | 3-7/8"        | 50       | 250       |  |
| 7620                                | 1/2" x 2-3/4" | 2-1/4"      | 1-3/8"        | 50       | 200       |  |
| 7622                                | 1/2" x 3-3/4" | 2-1/4"      | 2-3/8"        | 50       | 200       |  |
| 7623                                | 1/2" x 4-1/2" | 2-1/4"      | 3-1/8"        | 50       | 200       |  |
| 7624                                | 1/2" x 5-1/2" | 2-1/4"      | 4-1/8"        | 50       | 150       |  |
| 7626                                | 1/2" x 7"     | 2-1/4"      | 5-5/8"        | 25       | 100       |  |
| 7630                                | 5/8" x 3-1/2" | 2-3/4"      | 2"            | 25       | 100       |  |
| 7632                                | 5/8" x 4-1/2" | 2-3/4"      | 3"            | 25       | 100       |  |
| 7633                                | 5/8" x 5"     | 2-3/4"      | 3-1/2"        | 25       | 100       |  |
| 7634                                | 5/8" x 6"     | 2-3/4"      | 4-1/2"        | 25       | 75        |  |
| 7636                                | 5/8" x 7"     | 2-3/4"      | 5-1/2"        | 25       | 75        |  |
| 7638                                | 5/8" x 8-1/2" | 2-3/4"      | 7"            | 25       | 75        |  |
| 7640                                | 3/4" x 4-1/4" | 3-3/8"      | 2-3/8"        | 20       | 60        |  |
| 7641                                | 3/4" x 4-3/4" | 3-3/8"      | 2-7/8"        | 20       | 60        |  |
| 7642                                | 3/4" x 5-1/2" | 3-3/8"      | 3-5/8"        | 20       | 60        |  |
| 7644                                | 3/4" x 6-1/4" | 3-3/8"      | 4-3/8"        | 20       | 60        |  |
| 7646                                | 3/4" x 7"     | 3-3/8"      | 5-1/8"        | 20       | 60        |  |
| 7648                                | 3/4" x 8-1/2" | 3-3/8"      | 6-5/8"        | 10       | 40        |  |

The published length is the overall length of the anchor. Allow for fixture thickness plus one anchor diameter for the nut and washer thickness when selecting a length.

**Atomic+ Undercut**

Heavy Duty Undercut Anchor

BASE MATERIAL  
Normal-Weight Concrete, Structural Sand-Lightweight Concrete

SIZE RANGE  
3/8" diameter through 3/4" diameter

ANCHOR MATERIAL  
Zinc Plated A 36 Carbon Steel, Zinc Plated High Strength A 193 Grade B7 Steel, Type 316 Stainless Steel

The Atomic+ Undercut anchor is a heavy duty undercut anchor which is designed for consistent performance in cracked and uncracked concrete. Atomic+



Undercut anchors are available for standard installations and for through bolt applications where the fixture is already in place. The Atomic+ Undercut anchor is installed into a pre-drilled hole which has been enlarged at the bottom in the shape of a reversed cone using the Powers Undercut Drill Bit. The result is an anchor which transfers load mainly through bearing, and unlike a typical expansion anchor is not dependent upon friction between the expansion sleeve and the concrete.

\*Contact Powers Fasteners for appropriate drilling method. For anchor lengths not listed please contact Powers Fasteners. For availability of all anchor lengths please contact Powers Fasteners.



| ATOMIC+ UNDERCUT ANCHOR A 36 STEEL |                  |        |                              |                                 |              |          |
|------------------------------------|------------------|--------|------------------------------|---------------------------------|--------------|----------|
| CAT. NO.                           | NOM. ANCHOR DIA. | LENGTH | REQ. UNDERCUT BIT (CAT. NO.) | RECOMMENDED STOP BIT (CAT. NO.) | ANCHOR TYPE  | STD. BOX |
| 03100SD                            | 3/8"             | 5-1/2" | 03200SD                      | 03220SD                         | Standard     | 20       |
| 03102SD                            | 3/8"             | 5-1/2" | 03200SD                      | *                               | Through bolt | 20       |
| 03108SD                            | 1/2"             | 7"     | 03201SD                      | 03222SD                         | Standard     | 15       |
| 03110SD                            | 1/2"             | 7"     | 03201SD                      | *                               | Through bolt | 15       |
| 03120SD                            | 5/8"             | 7-3/4" | 03202SD                      | 03222SD                         | Standard     | 10       |
| 03122SD                            | 5/8"             | 7-3/4" | 03202SD                      | *                               | Through bolt | 10       |
| 03132SD                            | 3/4"             | 8-5/8" | 03203SD                      | 03228SD                         | Standard     | 8        |
| 03134SD                            | 3/4"             | 8-5/8" | 03203SD                      | *                               | Through bolt | 8        |



| ATOMIC+ UNDERCUT HIGH STRENGTH A 193, GRADE B7 STEEL |                  |         |                              |                                  |              |          |
|------------------------------------------------------|------------------|---------|------------------------------|----------------------------------|--------------|----------|
| CAT. NO.                                             | NOM. ANCHOR DIA. | LENGTH  | REQ. UNDERCUT BIT (CAT. NO.) | RECOMMENDED S TOP BIT (CAT. NO.) | ANCHOR TYPE  | STD. BOX |
| 03104SD                                              | 3/8"             | 6-3/4"  | 03200SD                      | 03221SD                          | Standard     | 20       |
| 03106SD                                              | 3/8"             | 6-1/4"  | 03200SD                      | *                                | Through bolt | 20       |
| 03112SD                                              | 1/2"             | 8"      | 03201SD                      | 03223SD                          | Standard     | 15       |
| 03114SD                                              | 1/2"             | 8"      | 03201SD                      | *                                | Through bolt | 15       |
| 03116SD                                              | 1/2"             | 9-3/4"  | 03201SD                      | 03224SD                          | Standard     | 15       |
| 03118SD                                              | 1/2"             | 9-3/4"  | 03201SD                      | *                                | Through bolt | 15       |
| 03124SD                                              | 5/8"             | 10-3/4" | 03202SD                      | 03226SD                          | Standard     | 10       |
| 03126SD                                              | 5/8"             | 10-3/4" | 03202SD                      | *                                | Through bolt | 10       |
| 03128SD                                              | 5/8"             | 12-1/4" | 03202SD                      | 03227SD                          | Standard     | 10       |
| 03130SD                                              | 5/8"             | 12-1/4" | 03202SD                      | *                                | Through bolt | 10       |
| 03136SD                                              | 3/4"             | 13-5/8" | 03203SD                      | 03229SD                          | Standard     | 8        |
| 03138SD                                              | 3/4"             | 13-5/8" | 03203SD                      | *                                | Through bolt | 8        |



| ATOMIC UNDERCUT+ TYPE 316 STAINLESS STEEL |                  |        |                              |                                  |              |          |
|-------------------------------------------|------------------|--------|------------------------------|----------------------------------|--------------|----------|
| CAT. NO.                                  | NOM. ANCHOR DIA. | LENGTH | REQ. UNDERCUT BIT (CAT. NO.) | RECOMMENDED S TOP BIT (CAT. NO.) | ANCHOR TYPE  | STD. BOX |
| 03600SD                                   | 3/8"             | 5-1/2" | 03200SD                      | 03220SD                          | Standard     | 20       |
| 03602SD                                   | 3/8"             | 5-1/2" | 03200SD                      | *                                | Through bolt | 20       |
| 03608SD                                   | 1/2"             | 7"     | 03201SD                      | 03222SD                          | Standard     | 15       |
| 03610SD                                   | 1/2"             | 7"     | 03201SD                      | *                                | Through bolt | 15       |
| 03620SD                                   | 5/8"             | 7-3/4" | 03202SD                      | 03225SD                          | Standard     | 10       |
| 03622SD                                   | 5/8"             | 7-3/4" | 03202SD                      | *                                | Through bolt | 10       |
| 03632SD                                   | 3/4"             | 8-5/8" | 03203SD                      | 03228SD                          | Standard     | 8        |
| 03634SD                                   | 3/4"             | 8-5/8" | 03203SD                      | *                                | Through bolt | 8        |



The Stop Drill Bit creates a drill hole to the proper depth for standard installations of the Atomic+ Undercut anchor (For through bolt applications please contact Powers Fasteners for appropriate drilling method)

| STOP DRILL BITS |                             |                                   |                  |            |           |  |
|-----------------|-----------------------------|-----------------------------------|------------------|------------|-----------|--|
| CAT. NO.        | NOMINAL STOP DRILL BIT DIA. | CORRESPONDING NOMINAL ANCHOR DIA. | MAX. DRILL DEPTH | SHANK TYPE | STD. TUBE |  |
| 03220SD         | 5/8"                        | 3/8"                              | 3-1/8"           | SDS        | 1         |  |
| 03221SD         | 5/8"                        | 3/8"                              | 4-3/8"           | SDS        | 1         |  |
| 03222SD         | 3/4"                        | 1/2"                              | 4-1/4"           | SDS        | 1         |  |
| 03223SD         | 3/4"                        | 1/2"                              | 5-1/4"           | SDS        | 1         |  |

| CAT. NO. | NOMINAL STOP DRILL BIT DIA. | CORRESPONDING NOMINAL ANCHOR DIA. | MAX. DRILL DEPTH | SHANK TYPE | STD. TUBE |
|----------|-----------------------------|-----------------------------------|------------------|------------|-----------|
| 03224SD  | 3/4"                        | 1/2"                              | 7"               | SDS        | 1         |
| 03225SD  | 1"                          | 5/8"                              | 5"               | SDS-Max    | 1         |
| 03226SD  | 1"                          | 5/8"                              | 8"               | SDS-Max    | 1         |
| 03227SD  | 1"                          | 5/8"                              | 9-1/2"           | SDS-Max    | 1         |
| 03228SD  | 1-1/8"                      | 3/4"                              | 5-13/16"         | SDS-Max    | 1         |
| 03229SD  | 1-1/8"                      | 3/4"                              | 10-13/16"        | SDS-Max    | 1         |



The Undercut Drill Bits unique design enlarges the bottom of the drill hole creating a reverse cone sized to receive the Atomic+ Undercut anchor.

| UNDERCUT DRILL BITS |                             |                                   |                  |            |           |  |
|---------------------|-----------------------------|-----------------------------------|------------------|------------|-----------|--|
| CAT. NO.            | NOMINAL STOP DRILL BIT DIA. | CORRESPONDING NOMINAL ANCHOR DIA. | MAX. DRILL DEPTH | SHANK TYPE | STD. TUBE |  |
| 03200SD             | 5/8"                        | 3/8"                              | 9"               | SDS        | 1         |  |
| 03201SD             | 3/4"                        | 1/2"                              | 10-1/4"          | SDS        | 1         |  |
| 03202SD             | 1"                          | 5/8"                              | 12-1/4"          | SDS-Max    | 1         |  |
| 03203SD             | 1-1/8"                      | 3/4"                              | 13-1/2"          | SDS-Max    | 1         |  |



| UNDERCUT SET SLEEVE |                                   |           |  |
|---------------------|-----------------------------------|-----------|--|
| CAT. NO.            | CORRESPONDING NOMINAL ANCHOR DIA. | STD. TUBE |  |
| 03210SD             | 3/8"                              | 1         |  |
| 03211SD             | 1/2"                              | 1         |  |
| 03212SD             | 5/8"                              | 1         |  |
| 03213SD             | 3/4"                              | 1         |  |

Note: One Undercut Setting Sleeve will be packaged with each box of Atomic+ Undercut anchors.

## Lok-Bolt AS™

Sleeve Type Expansion Anchor

BASE MATERIAL

Concrete, Block, Brick

SIZE RANGE

1/4" x 5/8" to 3/4" x 7-1/2"

ANCHOR MATERIAL

Carbon Steel & Stainless Steel

The Lok-Bolt AS anchor is a pre-assembled single unit sleeve anchor available in carbon steel and stainless steel which can be used in concrete, block, brick and stone. Extension sleeves are added to create longer lengths.

\* AS refers to all-steel sleeve



| HEX NUT LOK-BOLT AS CARBON STEEL |                |            |             |          |           |  |
|----------------------------------|----------------|------------|-------------|----------|-----------|--|
| CAT. NO.                         | SIZE           | DRILL DIA. | MIN. EMBED. | STD. BOX | STD. CTN. |  |
| 5005S                            | 5/16" x 1-1/2" | 5/16"      | 1"          | 100      | 1000      |  |
| 5010S                            | 5/16" x 2-3/8" | 5/16"      | 1"          | 100      | 500       |  |
| 5015S                            | 3/8" x 1-7/8"  | 3/8"       | 1-1/4"      | 50       | 500       |  |
| 5020S                            | 3/8" x 3"      | 3/8"       | 1-1/4"      | 50       | 500       |  |
| 5022S                            | 3/8" x 4"      | 3/8"       | 1-1/4"      | 50       | 250       |  |
| 5025S                            | 1/2" x 2-1/2"  | 1/2"       | 1-1/2"      | 25       | 250       |  |
| 5030S                            | 1/2" x 3"      | 1/2"       | 1-1/2"      | 25       | 250       |  |
| 5034S                            | 1/2" x 3-3/4"  | 1/2"       | 1-1/2"      | 25       | 125       |  |
| 5033S                            | 1/2" x 5-1/4"  | 1/2"       | 1-1/2"      | 25       | 125       |  |
| 5032S                            | 1/2" x 6"      | 1/2"       | 1-1/2"      | 10       | 100       |  |
| 5035S                            | 5/8" x 2-1/2"  | 5/8"       | 2"          | 25       | 125       |  |
| 5038S                            | 5/8" x 3"      | 5/8"       | 2"          | 25       | 125       |  |
| 5040S                            | 5/8" x 4-1/4"  | 5/8"       | 2"          | 10       | 100       |  |
| 5045S                            | 5/8" x 5-3/4"  | 5/8"       | 2"          | 10       | 100       |  |
| 5050S                            | 3/4" x 2-3/4"  | 3/4"       | 2-1/4"      | 10       | 100       |  |
| 5055S                            | 3/4" x 4-1/4"  | 3/4"       | 2-1/4"      | 10       | 40        |  |
| 5060S                            | 3/4" x 6-1/4"  | 3/4"       | 2-1/4"      | 10       | 30        |  |
| 5065S                            | 3/4" x 8-1/4"  | 3/4"       | 2-1/4"      | 10       | 30        |  |

The published length is measured from below the washer to the end of the anchor.



| HEX NUT LOK-BOLT AS 304 STAINLESS STEEL |               |            |             |          |           |
|-----------------------------------------|---------------|------------|-------------|----------|-----------|
| CAT. NO.                                | SIZE          | DRILL DIA. | MIN. EMBED. | STD. BOX | STD. CTN. |
| 6152S                                   | 3/8" x 1-7/8" | 3/8"       | 1-1/4"      | 50       | 500       |
| 6153S                                   | 3/8" x 3"     | 3/8"       | 1-1/4"      | 50       | 500       |
| 6156S                                   | 1/2" x 2-1/2" | 1/2"       | 1-1/2"      | 25       | 250       |
| 6157S                                   | 1/2" x 3"     | 1/2"       | 1-1/2"      | 25       | 250       |
| 6160S                                   | 1/2" x 3-3/4" | 1/2"       | 1-1/2"      | 25       | 125       |
| 6164S                                   | 5/8" x 4-1/4" | 5/8"       | 2"          | 10       | 100       |

The published length is measured from below the washer to the end of the anchor.



| ACORN NUT LOK-BOLT AS CARBON STEEL |               |            |             |          |           |
|------------------------------------|---------------|------------|-------------|----------|-----------|
| CAT. NO.                           | SIZE          | DRILL DIA. | MIN. EMBED. | STD. BOX | STD. CTN. |
| 5125S                              | 1/4" x 5/8"   | 1/4"       | 1/2"        | 100      | 1000      |
| 5150S                              | 1/4" x 1-3/8" | 1/4"       | 1/2"        | 100      | 1000      |
| 5175S                              | 1/4" x 2-1/4" | 1/4"       | 1/2"        | 100      | 1000      |

The published length is measured from below the washer to the end of the anchor.

| ACORN NUT LOK-BOLT AS 304 STAINLESS STEEL |               |            |             |          |           |
|-------------------------------------------|---------------|------------|-------------|----------|-----------|
| CAT. NO.                                  | SIZE          | DRILL DIA. | MIN. EMBED. | STD. BOX | STD. CTN. |
| 6150S                                     | 1/4" x 1-3/8" | 1/4"       | 1/2"        | 100      | 1000      |

The published length is measured from below the washer to the end of the anchor.



| ROUND HEAD LOK-BOLT AS CARBON STEEL |                |            |             |          |           |
|-------------------------------------|----------------|------------|-------------|----------|-----------|
| CAT. NO.                            | SIZE           | DRILL DIA. | MIN. EMBED. | STD. BOX | STD. CTN. |
| 5205S                               | 1/4" x 1-3/8"  | 1/4"       | 1/2"        | 100      | 1000      |
| 5210S                               | 1/4" x 2-1/4"  | 1/4"       | 1/2"        | 100      | 1000      |
| 5215S                               | 1/4" x 3"      | 1/4"       | 1/2"        | 100      | 1000      |
| 5220S                               | 1/4" x 3-3/4"  | 1/4"       | 1/2"        | 100      | 1000      |
| 5225S                               | 5/16" x 2-3/8" | 5/16"      | 1"          | 100      | 1000      |
| 5230S                               | 5/16" x 3-3/8" | 5/16"      | 1"          | 100      | 500       |
| 5235S                               | 3/8" x 2-3/4"  | 3/8"       | 1-1/4"      | 50       | 500       |
| 5240S                               | 3/8" x 3-3/4"  | 3/8"       | 1-1/4"      | 50       | 250       |

| ROUND HEAD LOK-BOLT AS 304 STAINLESS STEEL |               |            |             |          |           |
|--------------------------------------------|---------------|------------|-------------|----------|-----------|
| CAT. NO.                                   | SIZE          | DRILL DIA. | MIN. EMBED. | STD. BOX | STD. CTN. |
| 6180S                                      | 1/4" x 2-1/4" | 1/4"       | 1/2"        | 100      | 1000      |



| COMBO FLAT HEAD LOK-BOLT AS CARBON STEEL |                |            |             |          |           |
|------------------------------------------|----------------|------------|-------------|----------|-----------|
| CAT. NO.                                 | SIZE           | DRILL DIA. | MIN. EMBED. | STD. BOX | STD. CTN. |
| 5305S                                    | 1/4" x 1-1/2"  | 1/4"       | 1/2"        | 100      | 1000      |
| 5310S                                    | 1/4" x 2-1/4"  | 1/4"       | 1/2"        | 100      | 1000      |
| 5315S                                    | 1/4" x 3"      | 1/4"       | 1/2"        | 100      | 1000      |
| 5320S                                    | 1/4" x 4"      | 1/4"       | 1/2"        | 100      | 500       |
| 5325S                                    | 1/4" x 5-1/4"  | 1/4"       | 1/2"        | 100      | 500       |
| 5330S                                    | 5/16" x 2-1/4" | 5/16"      | 1"          | 100      | 1000      |
| 5340S                                    | 3/8" x 2-3/4"  | 3/8"       | 1-1/4"      | 50       | 300       |
| 5345S                                    | 3/8" x 4"      | 3/8"       | 1-1/4"      | 50       | 250       |
| 5350S                                    | 3/8" x 5"      | 3/8"       | 1-1/4"      | 50       | 250       |
| 5360S                                    | 3/8" x 6"      | 3/8"       | 1-1/4"      | 50       | 250       |

| COMBO FLAT HEAD LOK-BOLT AS 304 STAINLESS STEEL |               |            |             |          |           |
|-------------------------------------------------|---------------|------------|-------------|----------|-----------|
| CAT. NO.                                        | SIZE          | DRILL DIA. | MIN. EMBED. | STD. BOX | STD. CTN. |
| 6170S                                           | 1/4" x 2-1/4" | 1/4"       | 1/2"        | 100      | 1000      |
| 6172S                                           | 1/4" x 3"     | 1/4"       | 1/2"        | 100      | 1000      |
| 6174S                                           | 3/8" x 4"     | 3/8"       | 1-1/4"      | 50       | 250       |
| 6175S                                           | 3/8" x 5"     | 3/8"       | 1-1/4"      | 50       | 250       |
| 6176S                                           | 3/8" x 6"     | 3/8"       | 1-1/4"      | 50       | 250       |

These parts do not have a compression ring.



| THRESHOLD FLAT HEAD LOK-BOLT AS |           |            |            |          |           |
|---------------------------------|-----------|------------|------------|----------|-----------|
| CAT. NO.                        | SIZE      | DRILL DIA. | MIN. DEPTH | STD. BOX | STD. CTN. |
| 5500S                           | 1/4" x 2" | 1/4"       | 1/2"       | 100      | 1000      |

This part does not have a compression ring.



| ROD HANGER LOK-BOLT AS CARBON STEEL |               |            |            |          |           |
|-------------------------------------|---------------|------------|------------|----------|-----------|
| CAT. NO.                            | SIZE          | DRILL DIA. | MIN. DEPTH | STD. BOX | STD. CTN. |
| 5810S                               | 1/4" x 1-1/2" | 5/16"      | 1/2"       | 50       | 250       |
| 5815S                               | 3/8" x 1-7/8" | 3/8"       | 1-1/4"     | 50       | 250       |
| 5825S                               | 1/2" x 2-1/4" | 1/2"       | 1-1/2"     | 25       | 125       |



| TIE-WIRE LOK-BOLT AS |                |            |            |          |           |
|----------------------|----------------|------------|------------|----------|-----------|
| CAT. NO.             | SIZE           | DRILL DIA. | MIN. DEPTH | STD. BOX | STD. CTN. |
| 5700S                | 5/16" x 1-1/2" | 5/16"      | 1"         | 100      | 1000      |



| LOK-BOLT AS EXTENDERS CARBON STEEL (FOR ADDITIONAL LENGTH) |              |            |          |           |  |
|------------------------------------------------------------|--------------|------------|----------|-----------|--|
| CAT. NO.                                                   | SIZE         | DRILL DIA. | STD. BOX | STD. CTN. |  |
| 5684S                                                      | 3/8 x 1-1/4" | 3/8"       | 50       | 500       |  |

## Set-Bolt

Displacement Controlled Expansion Anchor

|                 |                                |
|-----------------|--------------------------------|
| BASE MATERIAL   | Concrete                       |
| SIZE RANGE      | 1/4" x 1-3/4" to 1/2" x 4-1/4" |
| ANCHOR MATERIAL | Carbon Steel                   |

The Set-Bolt is a one piece, stud style anchor with an external bottom-bearing expansion plug. It is available in carbon steel for use in concrete, stone and solid masonry units.



| CAT. NO. | SIZE          | MIN. DEPTH | THREAD LENGTH | STD. BOX | STD. CTN. |
|----------|---------------|------------|---------------|----------|-----------|
| 7101     | 1/4" x 1-3/4" | 1-3/8"     | 5/8"          | 100      | 1000      |
| 7107*    | 1/4" x 3-1/4" | 1-3/8"     | 1"            | 100      | 500       |
| 7123*    | 3/8" x 2-1/4" | 1-5/8"     | 5/8"          | 50       | 250       |
| 7126     | 3/8" x 3"     | 1-5/8"     | 1-3/8"        | 50       | 250       |
| 7129*    | 3/8" x 3-3/4" | 1-5/8"     | 1-3/8"        | 50       | 250       |
| 7134*    | 3/8" x 6"     | 1-5/8"     | 1-3/8"        | 50       | -         |
| 7145*    | 1/2" x 2-3/4" | 1-7/8"     | 7/8"          | 50       | 250       |
| 7151     | 1/2" x 4-1/4" | 1-7/8"     | 1-7/8"        | 25       | 125       |
| 7153*    | 1/2" x 5-1/4" | 1-7/8"     | 1-7/8"        | 25       | 125       |

\* Discontinued item once current stock exhausted.



**CODE LISTED**  
ICC-ES ESR-2526

**CODE LISTED**  
ICC-ES ESR-1678

**CITY OF LOS ANGELES**  
LARR-25808 (Concrete)

**Wedge-Bolt® +**

Screw Anchor

BASE MATERIAL

Normal-Weight Concrete, Structural Sand-Lightweight Concrete, Concrete Over Metal Deck, Grouted CMU

SIZE RANGE

1/4" Diameter (Uncracked Concrete), 3/8" Diameter Through 3/4" Diameter (Cracked And Uncracked Concrete), Grouted CMU

ANCHOR MATERIAL

Zinc Plated Carbon Steel Body and Hex Head

The Wedge-Bolt+ anchor is a one piece, heavy duty screw anchor with a finished hex head. It is simple to install, easy to identify and fully removable. The Wedge-Bolt+ has many features and benefits that make it well suited for many applications in a variety of base materials. The anchor is designed for consistent and reliable performance in cracked and uncracked concrete.

Install with Powers Wedge-Bit™

| WEDGE-BOLT + SCREW ANCHOR (CARBON STEEL) |                        |             |          |           |
|------------------------------------------|------------------------|-------------|----------|-----------|
| CAT. NO.                                 | DIAMETER SIZE & LENGTH | MIN. EMBED. | STD. BOX | STD. CTN. |
| 7204SD                                   | 1/4" x 1-1/4"*         | 1"          | 100      | 600       |
| 7206SD                                   | 1/4" x 1-3/4"*         | 1"          | 100      | 600       |
| 7207SD                                   | 1/4" x 2"              | 1-3/4"      | 100      | 600       |
| 7208SD                                   | 1/4" x 2-1/4"          | 1-3/4"      | 100      | 600       |
| 7210SD                                   | 1/4" x 3"              | 1-3/4"      | 100      | 500       |
| 7220SD                                   | 3/8" x 1-3/4"*         | 1-1/2"      | 50       | 300       |
| 7222SD                                   | 3/8" x 2-1/2"          | 2-1/8"      | 50       | 300       |
| 7224SD                                   | 3/8" x 3"              | 2-1/8"      | 50       | 250       |
| 7226SD                                   | 3/8" x 4"              | 2-1/8"      | 50       | 250       |
| 7228SD                                   | 3/8" x 5"              | 2-1/8"      | 50       | 250       |
| 7230SD                                   | 3/8" x 6"              | 2-1/8"      | 50       | 150       |
| 7240SD                                   | 1/2" x 2"*             | 1-3/4"      | 50       | 150       |
| 7242SD                                   | 1/2" x 2-1/2"*         | 1-3/4"      | 50       | 200       |
| 7244SD                                   | 1/2" x 3"              | 2-1/2"      | 50       | 150       |
| 7246SD                                   | 1/2" x 4"              | 2-1/2"      | 50       | 150       |
| 7248SD                                   | 1/2" x 5"              | 2-1/2"      | 25       | 100       |
| 7250SD                                   | 1/2" x 6"              | 2-1/2"      | 25       | 75        |
| 7268SD                                   | 1/2" x 6-1/2"          | 2-1/2"      | 25       | 75        |
| 7252SD                                   | 1/2" x 8"              | 2-1/2"      | 25       | 75        |
| 7260SD                                   | 5/8" x 3"*             | 2-1/2"      | 25       | 100       |
| 7262SD                                   | 5/8" x 4"              | 3-1/4"      | 25       | 100       |
| 7264SD                                   | 5/8" x 5"              | 3-1/4"      | 25       | 75        |
| 7266SD                                   | 5/8" x 6"              | 3-1/4"      | 25       | 75        |
| 7270SD                                   | 5/8" x 8"              | 3-1/4"      | 25       | 75        |
| 7280SD                                   | 3/4" x 3"*             | 2-1/2"      | 20       | 60        |
| 7282SD                                   | 3/4" x 4"*             | 3"          | 20       | 60        |
| 7284SD                                   | 3/4" x 5"              | 4-1/4"      | 20       | 60        |
| 7286SD                                   | 3/4" x 6"              | 4-1/4"      | 20       | 60        |
| 7288SD                                   | 3/4" x 8"              | 4-1/4"      | 10       | 40        |
| 7290SD                                   | 3/4" x 10"             | 4-1/4"      | 10       | 40        |

\* Sizes which are less than the minimum standard anchor length for strength design. The published length is measured from below the hex washer head to the end of the anchor. Wedge-Bolt+ is marked with a blue tip and must be installed with a matched tolerance Wedge-Bit.



| WEDGE-BOLT+ MG SCREW ANCHOR |                        |          |           |  |
|-----------------------------|------------------------|----------|-----------|--|
| CAT. NO.                    | DIAMETER SIZE & LENGTH | STD. BOX | STD. CTN. |  |
| 7726SD                      | 3/8" x 4"              | 50       | 250       |  |
| 7728SD                      | 3/8" x 5"              | 50       | 250       |  |
| 7730SD                      | 3/8" x 6"              | 50       | 150       |  |
| 7746SD                      | 1/2" x 4"              | 50       | 150       |  |
| 7748SD                      | 1/2" x 5"              | 25       | 100       |  |
| 7750SD                      | 1/2" x 6"              | 25       | 75        |  |
| 7751SD                      | 1/2" x 6-1/2"          | 25       | 75        |  |
| 7752SD                      | 1/2" x 8"              | 25       | 75        |  |
| 7764SD                      | 5/8" x 5"              | 25       | 75        |  |
| 7766SD                      | 5/8" x 6"              | 25       | 75        |  |
| 7768SD                      | 5/8" x 6-1/2"          | 25       | 75        |  |
| 7770SD                      | 5/8" x 8"              | 25       | 75        |  |
| 7786SD                      | 3/4" x 6"              | 20       | 60        |  |
| 7789SD                      | 3/4" x 8-1/2"          | 10       | 40        |  |
| 7790SD                      | 3/4" x 10"             | 10       | 20        |  |

MG = Mechanically Galvanized

**Wedge-Bolt®**  
**(Stainless Steel & Orange Tip)**

The 410 SS Wedge-Bolt screw anchor is specifically engineered for applications where additional corrosion resistance is desired. This anchor can be easily installed with either an impact wrench or conventional hand socket.



Install with Powers Wedge-Bit™

| 410 STAINLESS STEEL WEDGE-BOLT SCREW ANCHOR |                    |                     |             |               |          |           |  |
|---------------------------------------------|--------------------|---------------------|-------------|---------------|----------|-----------|--|
| CAT. NO.                                    | DIA. SIZE & LENGTH | CLEARANCE HOLE DIA. | MIN. EMBED. | THREAD LENGTH | STD. BOX | STD. CTN. |  |
| 7701N                                       | 1/4" x 1-3/4"      | 5/16"               | 1"          | 1-5/8"        | 100      | 500       |  |
| 7702N                                       | 3/8" x 1-3/4"      | 5/16"               | 1"          | 1-1/2"        | 50       | 500       |  |
| 7705N                                       | 3/8" x 2-1/2"      | 7/16"               | 1-1/2"      | 2-1/4"        | 50       | 250       |  |
| 7706N                                       | 3/8" x 3"          | 7/16"               | 1-1/2"      | 2-3/4"        | 50       | 250       |  |
| 7707N                                       | 3/8" x 4"          | 7/16"               | 1-1/2"      | 3-3/4"        | 50       | 150       |  |
| 7708N                                       | 3/8" x 5"          | 7/16"               | 1-1/2"      | 3-3/4"        | 50       | 150       |  |
| 7710N                                       | 1/2" x 3"          | 9/16"               | 1-3/4"      | 2-3/4"        | 50       | 150       |  |
| 7711N                                       | 1/2" x 4"          | 9/16"               | 1-3/4"      | 3-3/4"        | 50       | 150       |  |

The Carbon Steel Wedge-Bolt OT screw anchor is a specifically engineered part for the racking industry. This anchor is available in a finished hex head design and can be easily installed with either an impact wrench or conventional hand socket. This anchor, unlike Blue Tip Wedge-Bolt, can be installed with regular ANSI standard carbide drill bits but requires larger clearance holes.



Orange Tip (OT) = Install with ANSI Bit

| WEDGE-BOLT OT SCREW ANCHOR |                    |               |                     |             |               |          |           |
|----------------------------|--------------------|---------------|---------------------|-------------|---------------|----------|-----------|
| CAT. NO.                   | DIA. SIZE & LENGTH | ANSI BIT DIA. | CLEARANCE HOLE DIA. | MIN. EMBED. | THREAD LENGTH | STD. BOX | STD. CTN. |
| 7215                       | 1/4" x 3"          | 1/4"          | 3/8"                | 1"          | 2-3/4"        | 100      | 500       |
| 7216                       | 3/8" x 4"          | 3/8"          | 1/2"                | 1-1/2"      | 3-3/4"        | 50       | 250       |
| 7217                       | 1/2" x 4"          | 1/2"          | 5/8"                | 1-3/4"      | 3-3/4"        | 50       | 150       |
| 7218                       | 1/2" x 5"          | 1/2"          | 5/8"                | 1-3/4"      | 3-3/4"        | 25       | 100       |
| 7214                       | 1/2" x 6"          | 1/2"          | 5/8"                | 1-3/4"      | 3-3/4"        | 25       | 75        |
| 7219                       | 5/8" x 4"          | 5/8"          | 3/4"                | 2-1/2"      | 3-3/4"        | 25       | 100       |
| 7221                       | 5/8" x 5"          | 5/8"          | 3/4"                | 2-1/2"      | 3-3/4"        | 25       | 75        |
| 7227                       | 5/8" x 6"          | 5/8"          | 3/4"                | 2-1/2"      | 3-3/4"        | 25       | 75        |
| 7229                       | 5/8" x 7"          | 5/8"          | 3/4"                | 2-1/2"      | 3-3/4"        | 25       | 75        |
| 7233                       | 1/2" x 6-1/2"      | 1/2"          | 5/8"                | 1-3/4"      | 3-3/4"        | 25       | 75        |
| 7231                       | 3/4" x 6"          | 3/4"          | 7/8"                | 2-1/2"      | 4-1/2"        | 20       | 60        |
| 7232                       | 3/4" x 8"          | 3/4"          | 7/8"                | 2-1/2"      | 6"            | 10       | 40        |

## Wedge-Bits™

For proper performance, the Carbon Steel Wedge-Bolt and 410 Stainless Steel Wedge-Bolt anchors must be installed with a Wedge-Bit. The Wedge-Bit has a special matched tolerance range designed to provide optimum performance for the anchor. The available shank styles and sizes are listed below.



| SDS-PLUS WEDGE-BIT |            |               |                |            |
|--------------------|------------|---------------|----------------|------------|
| CAT. NO.           | DRILL SIZE | USABLE LENGTH | OVERALL LENGTH | STD. POUCH |
| 1312               | 1/4"       | 2"            | 4"             | 1          |
| 1314               | 1/4"       | 4"            | 6"             | 1          |
| 1316               | 3/8"       | 4"            | 6"             | 1          |
| 1318               | 3/8"       | 6"            | 8"             | 1          |
| 1319               | 3/8"       | 16"           | 18"            | 1          |
| 1332               | 3/8"       | 10"           | 12"            | 1          |
| 1320               | 1/2"       | 4"            | 6"             | 1          |
| 1322               | 1/2"       | 8"            | 10"            | 1          |
| 1324               | 5/8"       | 6"            | 8"             | 1          |
| 1334               | 1/2"       | 10"           | 12"            | 1          |
| 1326               | 5/8"       | 10"           | 12"            | 1          |
| 1336               | 5/8"       | 16"           | 18"            | 1          |
| 1328               | 3/4"       | 6"            | 8"             | 1          |
| 1330               | 3/4"       | 10"           | 12"            | 1          |
| 1335               | 1/2"       | 16"           | 18"            | 1          |



| HEAVY DUTY STRAIGHT SHANK WEDGE-BIT |            |               |                |            |
|-------------------------------------|------------|---------------|----------------|------------|
| CAT. NO.                            | DRILL SIZE | USABLE LENGTH | OVERALL LENGTH | STD. POUCH |
| 1370                                | 1/4"       | 2-3/4"        | 4"             | 1          |
| 1372                                | 1/4"       | 4"            | 6"             | 1          |
| 1380                                | 3/8"       | 4"            | 6"             | 1          |
| 1384                                | 3/8"       | 11"           | 13"            | 1          |
| 1390                                | 1/2"       | 4"            | 6"             | 1          |
| 1394                                | 1/2"       | 11"           | 13"            | 1          |
| 1396                                | 5/8"       | 11"           | 13"            | 1          |
| 1397                                | 3/4"       | 11"           | 13"            | 1          |



| SPLINE WEDGE-BIT |            |               |                |            |
|------------------|------------|---------------|----------------|------------|
| CAT. NO.         | DRILL SIZE | USABLE LENGTH | OVERALL LENGTH | STD. POUCH |
| 1340             | 1/2"       | 8"            | 13"            | 1          |
| 1342             | 1/2"       | 11"           | 16"            | 1          |
| 1344             | 5/8"       | 8"            | 13"            | 1          |
| 1348             | 3/4"       | 8"            | 13"            | 1          |



| SDS-MAX WEDGE-BIT |            |               |                |            |
|-------------------|------------|---------------|----------------|------------|
| CAT. NO.          | DRILL SIZE | USABLE LENGTH | OVERALL LENGTH | STD. POUCH |
| 1354              | 1/2"       | 8"            | 13"            | 1          |
| 1356              | 5/8"       | 8"            | 13"            | 1          |
| 1357              | 5/8"       | 16"           | 21"            | 1          |
| 1358              | 3/4"       | 8"            | 13"            | 1          |



**CODE LISTED**  
ICC-ES ESR-3068  
UNCRACKED CONCRETE

**CODE LISTED**  
ICC-ES ESR-3042  
WOOD-TO-WOOD

**CODE LISTED**  
ICC-ES ESR-3213  
CHEMICALLY TREATED LUMBER

**TESTED TO**  
ICC-ES AC106  
MASONRY (CMU)

MIAMI-DADE COUNTY  
APPROVED



## Tapper+™

Concrete Screw

BASE MATERIAL

Uncracked Concrete, Block, Brick, Wood, Pressure Treated Lumber

SIZE RANGE

3/16" x 1-1/4" to 1/4" x 6"

ANCHOR MATERIAL

Carbon Steel, Type 304 & Type 410 Stainless Steel

The Tapper+ is a one-piece self-tapping concrete screw for use in a variety of light to medium duty applications in base materials including concrete, masonry and wood. It features a corrosion resistant Perma-Seal® coating and an optimized thread design for lower torque. The screw also incorporates a gimlet drill point for wood base materials (no pre-drilling required). Tapper+ is available in a variety of head styles and colors to match the application.



### BLUE PERMA-SEAL TAPPER+ STANDARD PACK\*

| HWH CAT. NO. | PFH CAT. NO. | SCREW SIZE     | STD. BOX | STD. CTN |
|--------------|--------------|----------------|----------|----------|
| 2700SD+      | 2740SD+      | 3/16" x 1-1/4" | 100      | 500      |
| 2702SD+      | 2742SD+      | 3/16" x 1-3/4" | 100      | 500      |
| 2704SD       | 2744SD       | 3/16" x 2-1/4" | 100      | 500      |
| 2706SD       | 2746SD       | 3/16" x 2-3/4" | 100      | 500      |
| 2708SD       | 2748SD       | 3/16" x 3-1/4" | 100      | 500      |
| 2710SD       | 2750SD       | 3/16" x 3-3/4" | 100      | 500      |
| 2712SD       | 2752SD       | 3/16" x 4"     | 100      | 500      |
| 2720SD+      | 2760SD+      | 1/4" x 1-1/4"  | 100      | 500      |
| 2722SD+      | 2762SD+      | 1/4" x 1-3/4"  | 100      | 500      |
| 2724SD       | 2764SD       | 1/4" x 2-1/4"  | 100      | 500      |
| 2726SD       | 2766SD       | 1/4" x 2-3/4"  | 100      | 500      |
| 2728SD       | 2768SD       | 1/4" x 3-1/4"  | 100      | 500      |
| 2730SD       | 2770SD       | 1/4" x 3-3/4"  | 100      | 500      |
| 2732SD       | 2772SD       | 1/4" x 4"      | 100      | 500      |
| 2734SD       | 2774SD       | 1/4" x 5"      | 100      | 100      |
|              | 2776SD       | 1/4" x 6"      | 100      | 100      |

### MASTER PACK\*\*

| HWH CAT. NO. | PFH CAT. NO. | SCREW SIZE     | QUANTITY | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |
|--------------|--------------|----------------|----------|-------------------------|------------------------|
| 9462SD+      | 9476SD+      | 3/16" x 1-1/4" | 2000     | 2781                    | 2793                   |
| 9463SD+      | 9477SD+      | 3/16" x 1-3/4" | 2000     | 2781                    | 2793                   |
| 9464SD       | 9478SD       | 3/16" x 2-1/4" | 2000     | 2782                    | 2793                   |
| 9465SD       | 9479SD       | 3/16" x 2-3/4" | 2000     | 2782                    | 2793                   |
| 9466SD       | 9480SD       | 3/16" x 3-1/4" | 1000     | 2783                    | 2794                   |
| 9467SD       | 9481SD       | 3/16" x 3-3/4" | 1000     | 2783                    | 2794                   |
| 9468SD       | 9482SD       | 3/16" x 4"     | 1000     | 2783                    | 2794                   |
| 9469SD+      | 9483SD+      | 1/4" x 1-1/4"  | 2000     | 2785                    | 2796                   |
| 9470SD+      | 9484SD+      | 1/4" x 1-3/4"  | 2000     | 2785                    | 2796                   |
| 9471SD       | 9485SD       | 1/4" x 2-1/4"  | 1000     | 2786                    | 2796                   |
| 9472SD       | 9486SD       | 1/4" x 2-3/4"  | 1000     | 2786                    | 2796                   |
| 9473SD       | 9487SD       | 1/4" x 3-1/4"  | 1000     | 2787                    | 2797                   |

| HWH CAT. NO. | PFH CAT. NO. | SCREW SIZE    | QUANTITY | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |
|--------------|--------------|---------------|----------|-------------------------|------------------------|
| 9474SD       | 9488SD       | 1/4" x 3-3/4" | 1000     | 2787                    | 2797                   |
| 9475SD       | 9489SD       | 1/4" x 4"     | 1000     | 2787                    | 2797                   |
|              | 9490SD       | 1/4" x 5"     | 1000     | 2788                    | 2797                   |
|              | 9491SD       | 1/4" x 6"     | 1000     | 2789                    | 2797                   |

HWH = Hex Washer Head (slotted); PFH = Phillips Flat Head; TFH = Trim Flat Head; FHH = Flange Hex Head.

\* One Tapper+ drill bit included in each standard box. \*\* Drill bit not included with master pack. † Sizes which are less than the minimum standard anchor length for strength design.



**SILVER PERMA-SEAL TAPPER+ STANDARD PACK\***

| CAT. NO. HWH | CAT. NO. PFH | CAT. NO. FHH | CAT. NO. TFH | SCREW SIZE     | STD. BOX | ST. CTN. |
|--------------|--------------|--------------|--------------|----------------|----------|----------|
|              | 2498SD†      |              |              | 3/16" x 1-1/4" | 100      | 500      |
|              | 2500SD†      |              |              | 3/16" x 1-3/4" | 100      | 500      |
|              | 2501SD       |              |              | 3/16" x 2-1/4" | 100      | 500      |
|              | 2502SD       |              |              | 3/16" x 2-3/4" | 100      | 500      |
|              | 2503SD       |              |              | 3/16" x 3-1/4" | 100      | 500      |
|              | 2504SD       |              |              | 3/16" x 3-3/4" | 100      | 500      |
|              | 2505SD       |              |              | 3/16" x 4"     | 100      | 500      |
| 2486SD†      | 2506SD†      |              |              | 1/4" x 1-1/4"  | 100      | 500      |
| 2488SD†      | 2507SD†      | 8715SD†      | 8719SD†      | 1/4" x 1-3/4"  | 100      | 500      |
| 2490SD       | 2508SD       | 8716SD       | 8720SD       | 1/4" x 2-1/4"  | 100      | 500      |
| 2492SD       | 2509SD       | 8717SD       | 8721SD       | 1/4" x 2-3/4"  | 100      | 500      |
| 2494SD       | 2510SD       | 8718SD       | 8722SD       | 1/4" x 3-1/4"  | 100      | 500      |
| 2495SD       | 2511SD       |              | 8723SD       | 1/4" x 3-3/4"  | 100      | 500      |
| 2496SD       | 2512SD       |              |              | 1/4" x 4"      | 100      | 500      |

**MASTER PACK\*\***

| CAT. NO. HWH | CAT. NO. PFH | SCREW SIZE     | QUANTITIES | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |
|--------------|--------------|----------------|------------|-------------------------|------------------------|
|              | 8757SD†      | 3/16" x 1-1/4" | 2000       | 2781                    | 2793                   |
|              | 8758SD†      | 3/16" x 1-3/4" | 2000       | 2781                    | 2793                   |
|              | 8759SD       | 3/16" x 2-1/4" | 2000       | 2782                    | 2793                   |
|              | 8760SD       | 3/16" x 2-3/4" | 2000       | 2782                    | 2793                   |
|              | 8761SD       | 3/16" x 3-1/4" | 1000       | 2783                    | 2794                   |
|              | 8762SD       | 3/16" x 3-3/4" | 1000       | 2783                    | 2794                   |
|              | 8763SD       | 3/16" x 4"     | 1000       | 2783                    | 2794                   |
| 8750SD†      | 8764SD†      | 1/4" x 1-1/4"  | 2000       | 2785                    | 2796                   |
| 8751SD†      | 8765SD†      | 1/4" x 1-3/4"  | 2000       | 2785                    | 2796                   |
| 8752SD       | 8766SD       | 1/4" x 2-1/4"  | 1000       | 2786                    | 2796                   |
| 8753SD       | 8767SD       | 1/4" x 2-3/4"  | 1000       | 2786                    | 2796                   |
| 8754SD       | 8768SD       | 1/4" x 3-1/4"  | 1000       | 2787                    | 2797                   |
| 8755SD       | 8769SD       | 1/4" x 3-3/4"  | 1000       | 2787                    | 2797                   |
| 8756SD       | 8770SD       | 1/4" x 4"      | 1000       | 2787                    | 2797                   |

HWH = Hex Washer Head (slotted); PFH = Phillips Flat Head; TFH = Trim Flat Head; FHH = Flange Hex Head

\* One Tapper+ drill bit included in each standard box. \*\* Drill bit not included with master pack. † Sizes which are less than the minimum standard anchor length for strength design.



**BRONZE PERMA-SEAL TAPPER+ STANDARD PACK\***

| CAT. NO. HWH | CAT. NO. PFH | SCREW SIZE    | STD. BOX | STD. CTN. |
|--------------|--------------|---------------|----------|-----------|
| 9975SD†      | 9977SD†      | 1/4" x 1-1/4" | 100      | 500       |
| 9976SD†      | 9978SD†      | 1/4" x 1-3/4" | 100      | 500       |

† Sizes which are less than the minimum standard anchor length for strength design



**WHITE PERMA-SEAL TAPPER+ STANDARD PACK\***

| CAT. NO. HWH | CAT. NO. PFH | CAT. NO. FHH | CAT. NO. TFH | SCREW SIZE     | STD. BOX | STD. CTN. |
|--------------|--------------|--------------|--------------|----------------|----------|-----------|
| 2400SD†      | 2440SD†      |              |              | 3/16" x 1-1/4" | 100      | 500       |
| 2402SD†      | 2442SD†      |              |              | 3/16" x 1-3/4" | 100      | 500       |
| 2404SD       | 2444SD       |              |              | 3/16" x 2-1/4" | 100      | 500       |
| 2406SD       | 2446SD       |              |              | 3/16" x 2-3/4" | 100      | 500       |
| 2408SD       | 2448SD       |              |              | 3/16" x 3-1/4" | 100      | 500       |
| 2410SD       | 2450SD       |              |              | 3/16" x 3-3/4" | 100      | 500       |
| 2412SD       | 2449SD       |              |              | 3/16" x 4"     | 100      | 500       |
| 2420SD†      | 2460SD†      |              |              | 1/4" x 1-1/4"  | 100      | 500       |
| 2422SD†      | 2462SD†      | 8706SD†      | 8710SD†      | 1/4" x 1-3/4"  | 100      | 500       |
| 2424SD       | 2464SD       | 8707SD       | 8711SD       | 1/4" x 2-1/4"  | 100      | 500       |
| 2426SD       | 2466SD       | 8708SD       | 8712SD       | 1/4" x 2-3/4"  | 100      | 500       |

| CAT. NO. HWH | CAT. NO. PFH | CAT. NO. FHH | CAT. NO. TFH | SCREW SIZE    | STD. BOX | STD. CTN. |
|--------------|--------------|--------------|--------------|---------------|----------|-----------|
| 2428SD       | 2468SD       | 8709SD       | 8713SD       | 1/4" x 3-1/4" | 100      | 500       |
| 2430SD       | 2470SD       |              | 8714SD       | 1/4" x 3-3/4" | 100      | 500       |
| 2435SD       | 2472SD       |              |              | 1/4" x 4"     | 100      | 500       |

**MASTER PACK\*\***

| CAT. NO. HWH | CAT. NO. PFH | SCREW SIZE     | QUANTITIES | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |
|--------------|--------------|----------------|------------|-------------------------|------------------------|
|              | 9191SD†      | 3/16" x 1-1/4" | 2000       | 2781                    | 2793                   |
|              | 9192SD†      | 3/16" x 1-3/4" | 2000       | 2781                    | 2793                   |
|              | 9193SD       | 3/16" x 2-1/4" | 2000       | 2782                    | 2793                   |
|              | 9194SD       | 3/16" x 2-3/4" | 2000       | 2782                    | 2793                   |
|              | 9195SD       | 3/16" x 3-1/4" | 1000       | 2783                    | 2794                   |
|              | 9196SD       | 3/16" x 3-3/4" | 1000       | 2783                    | 2794                   |
|              | 9197SD       | 3/16" x 4"     | 1000       | 2783                    | 2794                   |
| 9923SD†      | 9951SD†      | 1/4" x 1-1/4"  | 2000       | 2785                    | 2796                   |
| 9924SD†      | 9952SD†      | 1/4" x 1-3/4"  | 2000       | 2785                    | 2796                   |
| 9925SD       | 9953SD       | 1/4" x 2-1/4"  | 1000       | 2786                    | 2796                   |
| 9926SD       | 9954SD       | 1/4" x 2-3/4"  | 1000       | 2786                    | 2796                   |
| 9927SD       | 9955SD       | 1/4" x 3-1/4"  | 1000       | 2787                    | 2797                   |
| 9928SD       | 9956SD       | 1/4" x 3-3/4"  | 1000       | 2787                    | 2797                   |
| 9929SD       | 9957SD       | 1/4" x 4"      | 1000       | 2787                    | 2797                   |

HWH = Hex Washer Head (slotted); PFH = Phillips Flat Head; TFH = Trim Flat Head; FHH = Flange Hex Head

\* One Tapper+ drill bit included in each standard box. \*\* Drill bit not included with master pack. † Sizes which are less than the minimum standard anchor length for strength design.

**Drill Bits for Perma-Seal® Tapper+™**



**BRONZE PERMA-SEAL TAPPER+ STANDARD PACK\***

| CAT. NO. | SIZE           | USABLE LENGTH | STD. TUBE | WT./100 |
|----------|----------------|---------------|-----------|---------|
| 2781SD   | 5/32" x 3-1/2" | 2"            | 10        | 1/4     |
| 2782SD   | 5/32" x 4-1/2" | 3"            | 10        | 1/4     |
| 2783SD   | 5/32" x 5-1/2" | 4"            | 10        | 1/4     |
| 2785SD   | 3/16" x 3-1/2" | 2"            | 10        | 1/4     |
| 2786SD   | 3/16" x 4-1/2" | 3"            | 10        | 1/4     |
| 2787SD   | 3/16" x 5-1/2" | 4"            | 10        | 1/2     |
| 2788SD   | 3/16" x 6-1/2" | 5"            | 10        | 1/2     |
| 2789SD   | 3/16" x 7-1/2" | 6"            | 10        | 1/2     |



**HEX SHANK SDS-PLUS**

| CAT. NO. | SIZE       | USABLE LENGTH | STD. TUBE | WT./10 |
|----------|------------|---------------|-----------|--------|
| 2793SD   | 5/32" x 5" | 3"            | 1         | 1      |
| 2794SD   | 5/32" x 7" | 5"            | 1         | 1      |
| 2796SD   | 3/16" x 5" | 3"            | 1         | 1      |
| 2797SD   | 3/16" x 7" | 5"            | 1         | 1      |



**Tapper™**  
Concrete Screw



BASE MATERIAL

Concrete, Block and Brick

SIZE RANGE

3/16" x 1-1/4" to 3/8" x 6"

ANCHOR MATERIAL

Carbon Steel, Type 304 & Type 410 Stainless Steel

The Tapper Anchoring System is a family of screw anchors, specially designed drill bits and installation tools designed to meet the needs of most light to medium duty applications in concrete, block and brick. The Tapper concrete screw anchor is produced in either hex washer head or Phillips flat head styles from Perma-Seal coated carbon steel and Type 304 and Type 410 stainless steel. The 3/8" size is made in zinc plated carbon steel.



Standard Packaging - 100 screws and 1 drill per box

| TYPE 304 STAINLESS STEEL TAPPER HEX HEAD† |               |          |           |                         |                        |
|-------------------------------------------|---------------|----------|-----------|-------------------------|------------------------|
| CAT. NO.                                  | SIZE          | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |
| 2880                                      | 1/4" x 1-1/4" | 100      | 500       | 2894                    | 2790                   |
| 2881                                      | 1/4" x 1-3/4" | 100      | 500       | 2894                    | 2790                   |
| 2882                                      | 1/4" x 2-1/4" | 100      | 500       | 2895                    | 2790                   |
| 2883                                      | 1/4" x 2-3/4" | 100      | 500       | 2895                    | 2790                   |

†Stainless Steel Tapper screws require the use of special Tapper drill bits. These special drill bits are gold or silver colored for identification. They cannot be used with the Perma-Seal® Tapper or 410 Stainless Steel Tapper.



Standard Packaging - 100 screws and 1 drill per box

| TYPE 304 STAINLESS STEEL TAPPER PHILLIPS FLAT HEAD† |               |          |           |                         |                        |
|-----------------------------------------------------|---------------|----------|-----------|-------------------------|------------------------|
| CAT. NO.                                            | SIZE          | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |
| 2887                                                | 1/4" x 1-1/4" | 100      | 500       | 2894                    | 2790                   |
| 2888                                                | 1/4" x 1-3/4" | 100      | 500       | 2894                    | 2790                   |
| 2889                                                | 1/4" x 2-1/4" | 100      | 500       | 2895                    | 2790                   |
| 2890                                                | 1/4" x 2-3/4" | 100      | 500       | 2895                    | 2790                   |

†Stainless Steel Tapper screws require the use of special Tapper drill bits. These special drill bits are gold or silver colored for identification. They cannot be used with the Perma-Seal® Tapper or 410 stainless steel Tapper.



Standard Packaging - 100 screws and 1 drill per box

| TYPE 410 STAINLESS STEEL TAPPER HEX HEAD |                |          |           |                         |                        |
|------------------------------------------|----------------|----------|-----------|-------------------------|------------------------|
| CAT. NO.                                 | SIZE           | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |
| 4180                                     | 3/16" x 1-1/4" | 100      | 500       | 2781                    | 2793                   |
| 4181                                     | 3/16" x 1-3/4" | 100      | 500       | 2781                    | 2793                   |
| 4182                                     | 3/16" x 2-1/4" | 100      | 500       | 2782                    | 2793                   |
| 4183                                     | 3/16" x 2-3/4" | 100      | 500       | 2782                    | 2793                   |
| 4110                                     | 1/4" x 1-1/4"  | 100      | 500       | 2785                    | 2796                   |
| 4112                                     | 1/4" x 1-3/4"  | 100      | 500       | 2785                    | 2796                   |
| 4114                                     | 1/4" x 2-1/4"  | 100      | 500       | 2786                    | 2796                   |
| 4116                                     | 1/4" x 2-3/4"  | 100      | 500       | 2786                    | 2796                   |
| 4117                                     | 1/4" x 3-1/4"  | 100      | 500       | 2786                    | 2796                   |
| 4119                                     | 1/4" x 3-3/4"  | 100      | 500       | 2786                    | 2796                   |
| 4127                                     | 1/4" x 4"      | 100      | 500       | 2787                    | 2797                   |
| 4128                                     | 1/4" x 5"      | 100      | 500       | 2788                    | -                      |
| 4129                                     | 1/4" x 6"      | 100      | 500       | 2788                    | -                      |

Standard Packaging - 100 screws and 1 drill per box

| TYPE 410 STAINLESS STEEL TAPPER PHILLIPS FLAT HEAD |                |          |           |                         |                        |
|----------------------------------------------------|----------------|----------|-----------|-------------------------|------------------------|
| CAT. NO.                                           | SIZE           | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |
| 4185                                               | 3/16" x 1-1/4" | 100      | 500       | 2781                    | 2793                   |
| 4186                                               | 3/16" x 1-3/4" | 100      | 500       | 2781                    | 2793                   |
| 4187                                               | 3/16" x 2-1/4" | 100      | 500       | 2782                    | 2793                   |
| 4188                                               | 3/16" x 2-3/4" | 100      | 500       | 2782                    | 2793                   |
| 4118                                               | 1/4" x 1-1/4"  | 100      | 500       | 2785                    | 2796                   |
| 4120                                               | 1/4" x 1-3/4"  | 100      | 500       | 2785                    | 2796                   |
| 4123                                               | 1/4" x 2-1/4"  | 100      | 500       | 2786                    | 2796                   |
| 4124                                               | 1/4" x 2-3/4"  | 100      | 500       | 2786                    | 2796                   |
| 4125                                               | 1/4" x 3-1/4"  | 100      | 500       | 2786                    | 2796                   |

Standard Packaging - 100 screws and 1 drill per box

| WHITE PERMA-SEAL TAPPER HEX HEAD |                |          |           |                         |                        |
|----------------------------------|----------------|----------|-----------|-------------------------|------------------------|
| CAT. NO.                         | SIZE           | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |
| 2400                             | 3/16" x 1-1/4" | 100      | 500       | 2781                    | 2793                   |
| 2402                             | 3/16" x 1-3/4" | 100      | 500       | 2781                    | 2793                   |
| 2404                             | 3/16" x 2-1/4" | 100      | 500       | 2782                    | 2793                   |
| 2406                             | 3/16" x 2-3/4" | 100      | 500       | 2782                    | 2793                   |
| 2408                             | 3/16" x 3-1/4" | 100      | 500       | 2783                    | 2794                   |
| 2410                             | 3/16" x 3-3/4" | 100      | 500       | 2783                    | 2794                   |
| 2412                             | 3/16" x 4"     | 100      | 500       | 2783                    | 2794                   |
| 2420                             | 1/4" x 1-1/4"  | 100      | 500       | 2785                    | 2796                   |
| 2422                             | 1/4" x 1-3/4"  | 100      | 500       | 2785                    | 2796                   |

| CAT. NO. | SIZE          | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |
|----------|---------------|----------|-----------|-------------------------|------------------------|
| 2424     | 1/4" x 2-1/4" | 100      | 500       | 2786                    | 2796                   |
| 2426     | 1/4" x 2-3/4" | 100      | 500       | 2786                    | 2796                   |
| 2428     | 1/4" x 3-1/4" | 100      | 500       | 2787                    | 2797                   |
| 2430     | 1/4" x 3-3/4" | 100      | 500       | 2787                    | 2797                   |
| 2435     | 1/4" x 4"     | 100      | 500       | 2787                    | 2797                   |

MASTER PACK

| CAT. NO. | SIZE          | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |
|----------|---------------|----------|-----------|-------------------------|------------------------|
| 9923     | 1/4" x 1-1/4" | 2000     | 2000      | 2785                    | 2796                   |
| 9924     | 1/4" x 1-3/4" | 2000     | 2000      | 2785                    | 2796                   |
| 9927     | 1/4" x 3-1/4" | 1000     | 1000      | 2787                    | 2797                   |
| 9928     | 1/4" x 3-3/4" | 1000     | 1000      | 2787                    | 2797                   |
| 9929     | 1/4" x 4"     | 1000     | 1000      | 2787                    | 2797                   |



Standard Packaging - 100 screws and 1 drill per box

| WHITE PERMA-SEAL TAPPER PHILLIPS FLAT HEAD |                |          |           |                         |                        |
|--------------------------------------------|----------------|----------|-----------|-------------------------|------------------------|
| CAT. NO.                                   | SIZE           | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |
| 2440                                       | 3/16" x 1-1/4" | 100      | 500       | 2781                    | 2793                   |
| 2442                                       | 3/16" x 1-3/4" | 100      | 500       | 2781                    | 2793                   |
| 2444                                       | 3/16" x 2-1/4" | 100      | 500       | 2782                    | 2793                   |
| 2446                                       | 3/16" x 2-3/4" | 100      | 500       | 2782                    | 2793                   |
| 2448                                       | 3/16" x 3-1/4" | 100      | 500       | 2783                    | 2794                   |
| 2450                                       | 3/16" x 3-3/4" | 100      | 500       | 2783                    | 2794                   |
| 2449                                       | 3/16" x 4"     | 100      | 500       | 2783                    | 2794                   |
| 2460                                       | 1/4" x 1-1/4"  | 100      | 500       | 2785                    | 2796                   |
| 2462                                       | 1/4" x 1-3/4"  | 100      | 500       | 2785                    | 2796                   |
| 2464                                       | 1/4" x 2-1/4"  | 100      | 500       | 2786                    | 2796                   |
| 2466                                       | 1/4" x 2-3/4"  | 100      | 500       | 2786                    | 2796                   |
| 2468                                       | 1/4" x 3-1/4"  | 100      | 500       | 2787                    | 2797                   |
| 2470                                       | 1/4" x 3-3/4"  | 100      | 500       | 2787                    | 2797                   |
| 2472                                       | 1/4" x 4"      | 100      | 500       | 2787                    | 2797                   |

MASTER PACK

| CAT. NO. | SIZE           | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |
|----------|----------------|----------|-----------|-------------------------|------------------------|
| 9191     | 3/16" x 1-1/4" | 2000     | 2000      | 2781                    | 2793                   |
| 9192     | 3/16" x 1-3/4" | 2000     | 2000      | 2781                    | 2793                   |
| 9193     | 3/16" x 2-1/4" | 2000     | 2000      | 2782                    | 2793                   |
| 9194     | 3/16" x 2-3/4" | 2000     | 2000      | 2782                    | 2793                   |
| 9195     | 3/16" x 3-1/4" | 1000     | 1000      | 2783                    | 2794                   |
| 9196     | 3/16" x 3-3/4" | 1000     | 1000      | 2783                    | 2794                   |
| 9197     | 3/16" x 4"     | 1000     | 1000      | 2783                    | 2794                   |
| 9951     | 1/4" x 1-1/4"  | 2000     | 2000      | 2785                    | 2796                   |
| 9952     | 1/4" x 1-3/4"  | 2000     | 2000      | 2785                    | 2796                   |
| 9953     | 1/4" x 2-1/4"  | 2000     | 2000      | 2786                    | 2796                   |
| 9954     | 1/4" x 2-3/4"  | 2000     | 2000      | 2786                    | 2796                   |
| 9955     | 1/4" x 3-1/4"  | 1000     | 1000      | 2787                    | 2797                   |
| 9956     | 1/4" x 3-3/4"  | 1000     | 1000      | 2787                    | 2797                   |
| 9957     | 1/4" x 4"      | 1000     | 1000      | 2787                    | 2797                   |
| 9958     | 1/4" x 5"      | 1000     | 1000      | 2788                    | -                      |
| 9959     | 1/4" x 6"      | 500      | 500       | 2789                    | -                      |



WHITE PERMA-SEAL TAPPER FLANGE HEX HEAD

| CAT. NO. | SIZE          | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |
|----------|---------------|----------|-----------|-------------------------|------------------------|
| 8706     | 1/4" x 1-3/4" | 100      | 500       | 2785                    | 2796                   |
| 8707     | 1/4" x 2-1/4" | 100      | 500       | 2786                    | 2796                   |
| 8708     | 1/4" x 2-3/4" | 100      | 500       | 2786                    | 2796                   |
| 8709     | 1/4" x 3-1/4" | 100      | 500       | 2787                    | 2797                   |



WHITE PERMA-SEAL TAPPER TRIM FLAT HEAD

| CAT. NO. | SIZE          | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |
|----------|---------------|----------|-----------|-------------------------|------------------------|
| 8710     | 1/4" x 1-3/4" | 100      | 500       | 2785                    | 2796                   |
| 8711     | 1/4" x 2-1/4" | 100      | 500       | 2786                    | 2796                   |
| 8712     | 1/4" x 2-3/4" | 100      | 500       | 2786                    | 2796                   |
| 8713     | 1/4" x 3-1/4" | 100      | 500       | 2787                    | 2797                   |
| 8714     | 1/4" x 3-3/4" | 100      | 500       | 2787                    | 2797                   |



Standard Packaging - 100 screws and 1 drill per box

| 3/8" ZINC PLATED CARBON STEEL TAPPER FLANGE HEX HEAD |           |          |           |                         |                        |  |
|------------------------------------------------------|-----------|----------|-----------|-------------------------|------------------------|--|
| CAT. NO.                                             | SIZE      | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |  |
| 5804                                                 | 3/8" x 2" | 100      | 500       | 5860                    | 5866                   |  |
| 5806                                                 | 3/8" x 3" | 100      | 500       | 5860                    | 5866                   |  |
| 5808                                                 | 3/8" x 4" | 100      | 500       | 5861                    | 5868                   |  |



Standard Packaging - 100 screws and 1 drill per box

| 3/8" ZINC PLATED CARBON STEEL TAPPER FLANGE PHF |           |          |           |                         |                        |  |
|-------------------------------------------------|-----------|----------|-----------|-------------------------|------------------------|--|
| CAT. NO.                                        | SIZE      | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |  |
| 5852                                            | 3/8" x 3" | 100      | 500       | 5860                    | 5866                   |  |
| 5854                                            | 3/8" x 4" | 100      | 500       | 5861                    | 5868                   |  |
| 5856                                            | 3/8" x 5" | 100      | 100       | 5862                    | 5868                   |  |
| 5858                                            | 3/8" x 6" | 100      | 100       | 5863                    | 5868                   |  |



| SILVER PERMA-SEAL TAPPER HEX HEAD |               |          |           |                         |                        |  |
|-----------------------------------|---------------|----------|-----------|-------------------------|------------------------|--|
| CAT. NO.                          | SIZE          | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |  |
| 2486                              | 1/4" x 1-1/4" | 100      | 500       | 2785                    | 2796                   |  |
| 2488                              | 1/4" x 1-3/4" | 100      | 500       | 2785                    | 2796                   |  |
| 2490                              | 1/4" x 2-1/4" | 100      | 500       | 2786                    | 2796                   |  |
| 2492                              | 1/4" x 2-3/4" | 100      | 500       | 2786                    | 2796                   |  |
| 2494                              | 1/4" x 3-1/4" | 100      | 500       | 2787                    | 2797                   |  |
| 2495                              | 1/4" x 3-3/4" | 100      | 500       | 2787                    | 2797                   |  |
| 2496                              | 1/4" x 4"     | 100      | 500       | 2787                    | 2797                   |  |

| MASTER PACK |               |          |           |                         |                        |  |
|-------------|---------------|----------|-----------|-------------------------|------------------------|--|
| CAT. NO.    | SIZE          | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |  |
| 8750        | 1/4" x 1-1/4" | 2000     | 2000      | 2785                    | 2796                   |  |
| 8751        | 1/4" x 1-3/4" | 2000     | 2000      | 2785                    | 2796                   |  |
| 8752        | 1/4" x 2-1/4" | 2000     | 2000      | 2786                    | 2796                   |  |
| 8753        | 1/4" x 2-3/4" | 2000     | 2000      | 2786                    | 2796                   |  |
| 8754        | 1/4" x 3-1/4" | 1000     | 1000      | 2787                    | 2797                   |  |
| 8755        | 1/4" x 3-3/4" | 1000     | 1000      | 2787                    | 2797                   |  |
| 8756        | 1/4" x 4"     | 1000     | 1000      | 2787                    | 2797                   |  |



| SILVER PERMA-SEAL TAPPER PHILLIPS FLAT HEAD |                |          |           |                         |                        |  |
|---------------------------------------------|----------------|----------|-----------|-------------------------|------------------------|--|
| CAT. NO.                                    | SIZE           | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |  |
| 2498                                        | 3/16" x 1-1/4" | 100      | 500       | 2781                    | 2793                   |  |
| 2500                                        | 3/16" x 1-3/4" | 100      | 500       | 2781                    | 2793                   |  |
| 2501                                        | 3/16" x 2-1/4" | 100      | 500       | 2782                    | 2793                   |  |
| 2502                                        | 3/16" x 2-3/4" | 100      | 500       | 2782                    | 2793                   |  |
| 2503                                        | 3/16" x 3-1/4" | 100      | 500       | 2783                    | 2794                   |  |
| 2504                                        | 3/16" x 3-3/4" | 100      | 500       | 2783                    | 2794                   |  |
| 2505                                        | 3/16" x 4"     | 100      | 500       | 2783                    | 2794                   |  |
| 2506                                        | 1/4" x 1-1/4"  | 100      | 500       | 2785                    | 2796                   |  |
| 2507                                        | 1/4" x 1-3/4"  | 100      | 500       | 2785                    | 2796                   |  |
| 2508                                        | 1/4" x 2-1/4"  | 100      | 500       | 2786                    | 2796                   |  |
| 2509                                        | 1/4" x 2-3/4"  | 100      | 500       | 2786                    | 2796                   |  |
| 2510                                        | 1/4" x 3-1/4"  | 100      | 500       | 2787                    | 2797                   |  |
| 2511                                        | 1/4" x 3-3/4"  | 100      | 500       | 2787                    | 2797                   |  |
| 2512                                        | 1/4" x 4"      | 100      | 500       | 2787                    | 2797                   |  |
| 8757                                        | 3/16" x 1-1/4" | 2000     | 2000      | 2781                    | 2793                   |  |
| 8758                                        | 3/16" x 1-3/4" | 2000     | 2000      | 2781                    | 2793                   |  |
| 8759                                        | 3/16" x 2-1/4" | 2000     | 2000      | 2782                    | 2793                   |  |
| 8760                                        | 3/16" x 2-3/4" | 1000     | 1000      | 2782                    | 2793                   |  |
| 8761                                        | 3/16" x 3-1/4" | 1000     | 1000      | 2783                    | 2794                   |  |
| 8762                                        | 3/16" x 3-3/4" | 1000     | 1000      | 2783                    | 2794                   |  |
| 8763                                        | 3/16" x 4"     | 1000     | 1000      | 2783                    | 2794                   |  |
| 8764                                        | 1/4" x 1-1/4"  | 2000     | 2000      | 2785                    | 2796                   |  |
| 8765                                        | 1/4" x 1-3/4"  | 2000     | 2000      | 2785                    | 2796                   |  |
| 8766                                        | 1/4" x 2-1/4"  | 2000     | 2000      | 2786                    | 2796                   |  |

| CAT. NO. | SIZE          | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |
|----------|---------------|----------|-----------|-------------------------|------------------------|
| 8767     | 1/4" x 2-3/4" | 2000     | 2000      | 2786                    | 2796                   |
| 8768     | 1/4" x 3-1/4" | 1000     | 1000      | 2787                    | 2797                   |
| 8769     | 1/4" x 3-3/4" | 1000     | 1000      | 2787                    | 2797                   |
| 8770     | 1/4" x 4"     | 1000     | 1000      | 2787                    | 2797                   |



| SILVER PERMA-SEAL TAPPER FLANGE HEX HEAD |               |          |           |                         |                        |  |
|------------------------------------------|---------------|----------|-----------|-------------------------|------------------------|--|
| CAT. NO.                                 | SIZE          | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |  |
| 8715                                     | 1/4" x 1-3/4" | 100      | 500       | 2785                    | 2796                   |  |
| 8716                                     | 1/4" x 2-1/4" | 100      | 500       | 2786                    | 2796                   |  |
| 8718                                     | 1/4" x 3-1/4" | 100      | 500       | 2787                    | 2797                   |  |



| SILVER PERMA-SEAL TAPPER TRIM FLAT HEAD |               |          |           |                         |                        |  |
|-----------------------------------------|---------------|----------|-----------|-------------------------|------------------------|--|
| CAT. NO.                                | SIZE          | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |  |
| 8719                                    | 1/4" x 1-3/4" | 100      | 500       | 2785                    | 2796                   |  |
| 8720                                    | 1/4" x 2-1/4" | 100      | 500       | 2786                    | 2796                   |  |
| 8721                                    | 1/4" x 2-3/4" | 100      | 500       | 2786                    | 2796                   |  |
| 8722                                    | 1/4" x 3-1/4" | 100      | 500       | 2787                    | 2797                   |  |
| 8723                                    | 1/4" x 3-3/4" | 100      | 500       | 2787                    | 2797                   |  |



| BRONZE TAPPER FLANGE HEX HEAD |               |          |           |                         |                        |  |
|-------------------------------|---------------|----------|-----------|-------------------------|------------------------|--|
| CAT. NO.                      | SIZE          | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |  |
| 9977                          | 1/4" x 1-3/4" | 100      | 500       | 2785                    | 2796                   |  |
| 9978                          | 1/4" x 2-1/4" | 100      | 500       | 2786                    | 2796                   |  |



| BRONZE TAPPER PHILLIPS FLAT HEAD |               |          |           |                         |                        |  |
|----------------------------------|---------------|----------|-----------|-------------------------|------------------------|--|
| CAT. NO.                         | SIZE          | STD. BOX | STD. CTN. | DRILL BIT REF. STRAIGHT | DRILL BIT REF. SDS HEX |  |
| 9975                             | 1/4" x 1-3/4" | 100      | 500       | 2785                    | 2796                   |  |
| 9976                             | 1/4" x 2-1/4" | 100      | 500       | 2786                    | 2796                   |  |

## Tapper™ Drill Bits

Carbide Drill Bits for Perma-Seal® and 410 SS Tapper™

Tapper Drill Bits in the diameters listed are nominal size. 3/16" & 1/4" Perma-Seal Tapper anchors must be installed with special tolerance Tapper drill bits. 1/4" Stainless Steel Tapper anchors require the use of specific tolerance Tapper drill bits, which are gold or silver colored, to denote the standard size and special application size for harder materials.

3/8" diameter Tapper anchors should be installed with a 1/4" ANSI drill bit.

Tolerance Range = 0.168" to 0.175" for the 5/32" and 0.202" to 0.204" for the 3/16" bits.

(Do not use with Type 304 Stainless Steel Tapper)



| STRAIGHT SHANK |                |               |           |  |
|----------------|----------------|---------------|-----------|--|
| CAT. NO.       | SIZE           | USABLE LENGTH | STD. TUBE |  |
| 2781           | 5/32" x 3-1/2" | 2"            | 10        |  |
| 2782           | 5/32" x 4-1/2" | 3"            | 10        |  |
| 2783           | 5/32" x 5-1/2" | 4"            | 10        |  |
| 2785           | 3/16" x 3-1/2" | 2"            | 10        |  |
| 2786           | 3/16" x 4-1/2" | 3"            | 10        |  |
| 2787           | 3/16" x 5-1/2" | 4"            | 10        |  |
| 2788           | 3/16" x 6-1/2" | 5"            | 10        |  |
| 2789           | 3/16" x 7-1/2" | 6"            | 10        |  |



| SDS HEX  |            |               |           |  |
|----------|------------|---------------|-----------|--|
| CAT. NO. | SIZE       | USABLE LENGTH | STD. TUBE |  |
| 2793     | 5/32" x 5" | 3"            | 1         |  |
| 2794     | 5/32" x 7" | 5"            | 1         |  |
| 2796     | 3/16" x 5" | 3"            | 1         |  |
| 2797     | 3/16" x 7" | 5"            | 1         |  |

**Carbide Drill Bits for Type 304 SS TAPPER**

This is the standard bit for use with Type 304 Stainless Steel Tapper. It is for use in standard weight concrete and block, tolerance = 0.215" to 0.216". This bit is gold colored for identification. (Do not use with Perma-Seal or Type 410 SS Tapper)

| STRAIGHT SHANK |                |               |           |  |
|----------------|----------------|---------------|-----------|--|
| CAT. NO.       | SIZE           | USABLE LENGTH | STD. TUBE |  |
| 2894           | 3/16" x 3-1/2" | 2"            | 10        |  |
| 2895           | 3/16" x 4-1/2" | 3"            | 10        |  |

| SDS HEX  |                |               |           |  |
|----------|----------------|---------------|-----------|--|
| CAT. NO. | SIZE           | USABLE LENGTH | STD. TUBE |  |
| 2790     | 3/16" x 5-1/2" | 3"            | 1         |  |

**Special Drill Bits for Type 304 SS TAPPER**

For use in hard aggregate concrete, tolerance = 0.220" to 0.222. This bit is silver colored for identification. (Do not use with Perma-Seal or Type 410 SS Tapper)

| SDS HEX  |            |               |           |  |
|----------|------------|---------------|-----------|--|
| CAT. NO. | SIZE       | USABLE LENGTH | STD. TUBE |  |
| 2780     | 3/16" x 5" | 3"            | 1         |  |

| CARBIDE DRILL BITS FOR 3/8" ZINC PLATED TAPPER STRAIGHT SHANK |               |               |           |  |
|---------------------------------------------------------------|---------------|---------------|-----------|--|
| CAT. NO.                                                      | SIZE          | USABLE LENGTH | STD. TUBE |  |
| 5861                                                          | 1/4" x 5-1/2" | 4"            | 5         |  |
| 5862*                                                         | 1/4" x 6-1/2" | 5"            | 5         |  |
| 5863*                                                         | 1/4" x 7-1/2" | 6"            | 5         |  |

\* Discontinued item once current stock exhausted.

| SDS HEX  |           |               |           |  |
|----------|-----------|---------------|-----------|--|
| CAT. NO. | SIZE      | USABLE LENGTH | STD. TUBE |  |
| 5866     | 1/4" x 6" | 4"            | 1         |  |
| 5868*    | 1/4" x 8" | 6"            | 1         |  |

\* Discontinued item once current stock exhausted.

**Tapper™ Installation Tools**



| INSTALLATION TOOLS FOR 3/16" AND 1/4" TAPPER |                             |                  |                 |          |
|----------------------------------------------|-----------------------------|------------------|-----------------|----------|
| CAT. NO.                                     | DESCRIPTION                 | MAX SCREW LENGTH | MAX. BIT LENGTH | STD. BOX |
| 2791                                         | Tapper 1000 Tool (as shown) | 4"               | 5-1/2"          | 1        |
| 2792*                                        | Condrive®† 2000             | 2-3/4"           | 4-1/2"          | 1        |
| 2795                                         | 1000 SDS Extension (8")     | 6"               | 7-1/2"          | 1        |

\*This tool cannot be used with SDS Drill Bits or PFH screws.



| TAPPER 1000 REPLACEMENT PARTS |                                   |          |  |
|-------------------------------|-----------------------------------|----------|--|
| CAT. NO.                      | DESCRIPTION                       | STD. BOX |  |
| 2953                          | Drive Sleeve Assembly (5-3/4")    | 1        |  |
| 2955*                         | 1/8" Hex Key                      | 1        |  |
| 2964                          | Blue 3/16" Hex Wedge-Bolt® Socket | 1        |  |

\* Discontinued item once current stock exhausted.



| CONDRIVE® 2000 REPLACEMENT PARTS† |               |          |  |
|-----------------------------------|---------------|----------|--|
| CAT. NO.                          | DESCRIPTION   | STD. BOX |  |
| 2956                              | 1/4" Hex Key  | 1        |  |
| 2957                              | 5/16" Hex Key | 1        |  |

† Condrive® is a Registered Trademark of Illinois Tool Works.



| INSTALLATION TOOLS FOR 3/8" TAPPER |                     |                  |                 |          |
|------------------------------------|---------------------|------------------|-----------------|----------|
| CAT. NO.                           | DESCRIPTION         | MAX SCREW LENGTH | MAX. BIT LENGTH | STD. BOX |
| 5865*                              | Tapper 3000 Tool    | 4"               | 5-1/2"          | 1        |
| 5867                               | 3000 Extension (8") | 6"               | 7-1/2"          | 1        |

\* Discontinued item once current stock exhausted.

| TAPPER 3000 REPLACEMENT PARTS |                                |          |  |
|-------------------------------|--------------------------------|----------|--|
| CAT. NO.                      | DESCRIPTION                    | STD. BOX |  |
| 5874                          | Drive Sleeve Assembly (5-3/4") | 1        |  |
| 5867                          | Drive Sleeve Assembly (8")     | 1        |  |



**CODE LISTED**  
ICC-ES ESR-2272

**CITY OF LOS ANGELES**  
LARR-25810  
(Concrete)

**Snake+™**

*Internally Threaded Self-Tapping Anchor*

BASE MATERIAL  
Normal-Weight Concrete, Structural Sand-Lightweight Concrete, Concrete Over Metal Deck

SIZE RANGE  
3/8" diameter (Cracked and Uncracked Concrete), 1/2" diameter

ANCHOR MATERIAL  
Zinc Plated Carbon Steel

The Snake+ anchor is an internally threaded, self-tapping screw anchor designed for performance in cracked and uncracked concrete. Suitable base materials include normal-weight concrete, structural sand-lightweight concrete and concrete over metal deck. The Snake+ screw anchor is installed into a drilled hole with a power tool and a Snake+ setting tool. A hammer is not used for installation.

| SNAKE+   |      |                 |                       |          |           |  |
|----------|------|-----------------|-----------------------|----------|-----------|--|
| CAT. NO. | SIZE | MIN. HOLE DEPTH | INTERNAL THREAD DEPTH | STD. BOX | STD. CTN. |  |
| 6400SD   | 1/4" | 2"              | 22/32"                | 100      | 1000      |  |
| 6401SD   | 3/8" | 1-5/8"          | 11/16"                | 50       | 500       |  |
| 6403SD   | 1/2" | 2-1/2"          | 29/32"                | 50       | 300       |  |



| EXTRA SNAKE & SNAKE+ SETTING TOOLS |      |          |           |
|------------------------------------|------|----------|-----------|
| CAT. NO.                           | SIZE | STD. BOX | STD. CTN. |
| 6402SD                             | 1/4" | 1        | 250       |
| 6407SD                             | 3/8" | 1        | 250       |
| 6404SD                             | 1/2" | 1        | 250       |



## Smart DI+™ Anchor (Drop-In)

Internally Threaded Expansion Anchor

BASE MATERIAL

Concrete

SIZE RANGE

1/4" to 3/4"

ANCHOR MATERIAL

Carbon Steel



With Powers new patented innovation, the Smart DI+™ Anchor (Drop-In), contractors can now reduce the amount of hammer blows when setting by approximately 25% compared to competitive brands. Once the setting tool is flush, your anchor is set! The new patented plug design yields a higher percentage of the expansion at the bottom of the anchor, exactly where it is needed. Smart DI+™ Anchor (Drop-In), can also be set using our new Smart Tool. Drill your hole, slide the tool sleeve over your carbide drill and lock into place. Your hammer drill now does all the work for you in setting the anchor.

| SMART DI+ |      |          |           |
|-----------|------|----------|-----------|
| CAT. NO.  | SIZE | STD. BOX | STD. CTN. |
| 6304SD    | 1/4" | 100      | 1000      |
| 6306SD    | 3/8" | 50       | 500       |
| 6308SD    | 1/2" | 50       | 250       |
| 6320SD    | 5/8" | 25       | 125       |
| 6312SD    | 3/4" | 10       | 50        |



| DI+ TOOL |      |          |           |
|----------|------|----------|-----------|
| CAT. NO. | SIZE | STD. BOX | STD. CTN. |
| 00425SD  | 1/4" | 1        | 6         |
| 00427SD  | 3/8" | 1        | 6         |
| 00429SD  | 1/2" | 1        | 6         |



| DI+ DRILL |                           |          |           |
|-----------|---------------------------|----------|-----------|
| CAT. NO.  | SIZE                      | STD. BOX | STD. CTN. |
| 00391SD   | 3/8" (for 1/4" Smart DI+) | 1        | 12        |
| 00397SD   | 1/2" (for 3/8" Smart DI+) | 1        | 12        |
| 00410SD   | 5/8" (for 1/2" Smart DI+) | 1        | 12        |



## Hollow-Set Dropin™

Internally Threaded Expansion Anchor

BASE MATERIAL

Concrete, Block, Brick, Pre-cast Hollow Core Plank, Stone

SIZE RANGE

1/4" to 5/8"

ANCHOR MATERIAL

Zamac Alloy with Carbon Steel or Stainless Steel Cones

The Hollow-Set Dropin anchor is designed for anchoring in hollow base materials such as hollow concrete block, brick with weep holes and hollow core pre-cast concrete plank. It can also be used in solid base materials. Hollow masonry materials often have a relatively thin outer wall thickness. During the drilling process, spalling on the back side of the wall can decrease the wall thickness available for anchoring to 1" or less. The design of the Hollow-Set Dropin overcomes this problem.

| ZAMAC BODY WITH CARBON STEEL CONE |       |            |                |               |          |           |
|-----------------------------------|-------|------------|----------------|---------------|----------|-----------|
| CAT. NO.                          | SIZE  | DRILL DIA. | OVERALL LENGTH | SLEEVE LENGTH | STD. BOX | STD. CTN. |
| 9320                              | 1/4"  | 3/8"       | 7/8"           | 5/8"          | 100      | 1000      |
| 9330                              | 5/16" | 5/8"       | 1-5/16"        | 15/16"        | 50       | 500       |
| 9340                              | 3/8"  | 5/8"       | 1-5/16"        | 15/16"        | 50       | 500       |
| 9350                              | 1/2"  | 3/4"       | 1-3/4"         | 1-1/4"        | 50       | 250       |
| 9360                              | 5/8"  | 1"         | 2"             | 1-1/2"        | 25       | 125       |

| ZAMAC BODY WITH STAINLESS STEEL CONE |      |            |                |               |          |           |
|--------------------------------------|------|------------|----------------|---------------|----------|-----------|
| CAT. NO.                             | SIZE | DRILL DIA. | OVERALL LENGTH | SLEEVE LENGTH | STD. BOX | STD. CTN. |
| 9420                                 | 1/4" | 3/8"       | 7/8"           | 5/8"          | 100      | 1000      |
| 9440                                 | 3/8" | 5/8"       | 1-5/16"        | 15/16"        | 100      | 500       |



For solid base materials

| SETTING TOOLS - SOLID BASE MATERIALS |              |          |           |
|--------------------------------------|--------------|----------|-----------|
| CAT. NO.                             | SIZE         | STD. BOX | STD. CTN. |
| 9322                                 | 1/4"         | 1        | 1         |
| 9342                                 | 5/16" & 3/8" | 1        | 1         |
| 9352                                 | 1/2"         | 1        | 1         |
| 9362                                 | 5/8"         | 1        | 1         |



For hollow base materials

| SETTING TOOLS - HOLLOW BASE MATERIALS |       |          |           |
|---------------------------------------|-------|----------|-----------|
| CAT. NO.                              | SIZE  | STD. BOX | STD. CTN. |
| 9323                                  | 1/4"  | 1        | 1         |
| 9333                                  | 5/16" | 1        | 1         |
| 9343                                  | 3/8"  | 1        | 1         |
| 9353                                  | 1/2"  | 1        | 1         |
| 9363                                  | 5/8"  | 1        | 1         |



## Steel Dropin

*Internally Threaded Expansion Anchor*

BASE MATERIAL

Solid Concrete, Solid Block, Hard Stone

SIZE RANGE

1/4" to 3/4" Standard Thread, 1/2" & 3/4" in Coil Thread

ANCHOR MATERIAL

Carbon Steel and Type 304 or 316 Stainless Steel

The Steel Dropin is an all-steel, machine bolt anchor available in carbon steel and two types of stainless steel. It can be used in solid concrete, hard stone, and solid block. A coil-thread version for forming applications is also available. A setting tool is included in each standard carton.

### CARBON STEEL DROPIN (SMOOTH WALL)

| CAT. NO. | SIZE | DRILL DIA. | MIN. DEPTH | THREAD DEPTH | STD. BOX | STD. CTN. |
|----------|------|------------|------------|--------------|----------|-----------|
| 6304     | 1/4" | 3/8"       | 1"         | 7/16"        | 100      | 1000      |
| 6306     | 3/8" | 1/2"       | 1-9/16"    | 5/8"         | 50       | 500       |
| 6308     | 1/2" | 5/8"       | 2"         | 13/16"       | 50       | 250       |
| 6320     | 5/8" | 7/8"       | 2-1/2"     | 1-3/16"      | 25       | 125       |
| 6312     | 3/4" | 1"         | 3-3/16"    | 1-3/8"       | 10       | 50        |

### CARBON STEEL FLANGED DROPIN (LIPPED)

| CAT. NO. | SIZE | DRILL DIA. | MIN. DEPTH | THREAD DEPTH | STD. BOX | STD. CTN. |
|----------|------|------------|------------|--------------|----------|-----------|
| 6324     | 1/4" | 3/8"       | 1"         | 7/16"        | 100      | 1000      |
| 6326     | 3/8" | 1/2"       | 1-9/16"    | 5/8"         | 50       | 500       |
| 6328     | 1/2" | 5/8"       | 2"         | 13/16"       | 50       | 250       |

### CARBON STEEL KNURLED WALL DROPIN

| CAT. NO. | ROD/ANCHOR SIZE | DRILL DIA. | OVERALL LENGTH | THREAD DEPTH | STD. BOX | STD. CTN. |
|----------|-----------------|------------|----------------|--------------|----------|-----------|
| 6340     | 1/4"            | 3/8"       | 1"             | 7/16"        | 100      | 1000      |
| 6342     | 3/8"            | 1/2"       | 1-9/16"        | 5/8"         | 50       | 250       |
| 6344     | 1/2"            | 5/8"       | 2"             | 13/16"       | 50       | 250       |

### TYPE 303 STAINLESS STEEL DROPIN

| CAT. NO. | SIZE | DRILL DIA. | MIN. DEPTH | THREAD DEPTH | STD. BOX | STD. CTN. |
|----------|------|------------|------------|--------------|----------|-----------|
| 6204     | 1/4" | 3/8"       | 1"         | 7/16"        | 100      | 1000      |
| 6206     | 3/8" | 1/2"       | 1-9/16"    | 5/8"         | 50       | 500       |
| 6208     | 1/2" | 5/8"       | 2"         | 13/16"       | 50       | 250       |
| 6210     | 5/8" | 7/8"       | 2-1/2"     | 1-3/16"      | 25       | 125       |
| 6212     | 3/4" | 1"         | 3-3/16"    | 1-3/8"       | 10       | 50        |

### TYPE 316 STAINLESS STEEL DROPIN

| CAT. NO. | SIZE | DRILL DIA. | MIN. DEPTH | THREAD DEPTH | STD. BOX | STD. CTN. |
|----------|------|------------|------------|--------------|----------|-----------|
| 6224     | 1/4" | 3/8"       | 1"         | 7/16"        | 100      | 1000      |
| 6226     | 3/8" | 1/2"       | 1-9/16"    | 5/8"         | 50       | 500       |
| 6228     | 1/2" | 5/8"       | 2"         | 13/16"       | 50       | 250       |
| 6230     | 5/8" | 7/8"       | 2-1/2"     | 1-3/16"      | 25       | 125       |
| 6232     | 3/4" | 1"         | 3-3/16"    | 1-3/8"       | 10       | 50        |

### CARBON STEEL COIL THREAD DROPIN

| CAT. NO. | SIZE | DRILL DIA. | MIN. DEPTH | THREAD DEPTH | STD. BOX | STD. CTN. |
|----------|------|------------|------------|--------------|----------|-----------|
| 6330     | 1/2" | 5/8"       | 2"         | 13/16"       | 50       | 250       |
| 6332     | 3/4" | 1"         | 3-3/16"    | 1-3/8"       | 10       | 50        |

Use Setting Tool Cat. No. 6309 for 1/2" size, Cat. No. 6313 for 3/4" size.



### SETTING TOOLS FOR STEEL DROPIN ANCHORS

| CAT. NO. | SIZE | STD. BOX | STD. CTN. |
|----------|------|----------|-----------|
| 6305     | 1/4" | 1        | 250       |
| 6307     | 3/8" | 1        | 100       |
| 6309     | 1/2" | 1        | 100       |
| 6311     | 5/8" | 1        | 50        |
| 6313     | 3/4" | 1        | 25        |



### SDS-PLUS ACCU-BIT FOR DROPIN AND SMART DI+

| CAT. NO. | SIZE                            | USABLE LENGTH   | BITS PER PACK |
|----------|---------------------------------|-----------------|---------------|
| 00391    | SDS-Plus 3/8" Concrete Accu-Bit | for 1/4" Dropin | 1             |
| 00397    | SDS-Plus 1/2" Concrete Accu-Bit | for 3/8" Dropin | 1             |
| 00410    | SDS-Plus 5/8" Concrete Accu-Bit | for 1/2" Dropin | 1             |
| 00418    | SDS-Plus 7/8" Concrete Accu-Bit | for 5/8" Dropin | 1             |
| 00419    | SDS-Plus 1" Concrete Accu-Bit   | for 3/4" Dropin | 1             |



## Mini Dropin

*Internally Threaded Expansion Anchor*

BASE MATERIAL

Pre-cast Hollow Core Plank, Concrete

SIZE RANGE

1/4", 3/8" and 1/2"

ANCHOR MATERIAL

Carbon Steel

The Mini Dropin is a carbon steel, machine bolt anchor used in shallow embedment applications. It can be used in solid concrete and hollow core concrete plank, and it may be suitable in hard stone and solid block.

### MINI DROPIN

| CAT. NO. | SIZE | DRILL DIA. | MIN. DEPTH | THREAD DEPTH | STD. BOX | STD. CTN. |
|----------|------|------------|------------|--------------|----------|-----------|
| 6335     | 1/4" | 3/8"       | 5/8"       | 3/8"         | 100      | 1000      |
| 6322     | 3/8" | 1/2"       | 3/4"       | 13/32"       | 100      | 1000      |
| 6337     | 1/2" | 5/8"       | 1"         | 5/8"         | 50       | 250       |



### SETTING TOOLS FOR MINI DROPIN ANCHORS

| CAT. NO. | SIZE | STD. BOX | STD. CTN. |
|----------|------|----------|-----------|
| 6336     | 1/4" | 1        | 50        |
| 6323     | 3/8" | 1        | 50        |
| 6338     | 1/2" | 1        | 50        |



### SDS-PLUS ACCU-BIT FOR MINI DROPIN

| CAT. NO. | SIZE                            | USABLE LENGTH        | BITS PER PACK |
|----------|---------------------------------|----------------------|---------------|
| 00392    | SDS-Plus 3/8" Concrete Accu-Bit | for 1/4" Mini Dropin | 1             |
| 00398    | SDS-Plus 1/2" Concrete Accu-Bit | for 3/8" Mini Dropin | 1             |
| 00411    | SDS-Plus 5/8" Concrete Accu-Bit | for 1/2" Mini Dropin | 1             |



## Double Expansion Anchor

*Shell Expansion Anchor*

BASE MATERIAL

Concrete, Block, Brick

SIZE RANGE

1/4" to 3/4"

ANCHOR MATERIAL

Zamac Alloy

The Double is a dual expansion machine bolt anchor particularly suited for base materials of questionable strength. It can be used in solid concrete and some block, brick and stone base materials.

| CAT. NO. | SIZE  | ANCHOR LENGTH | DRILL DIA. | MIN. HOLE DEPTH | STD. BOX | STD. CTN. |
|----------|-------|---------------|------------|-----------------|----------|-----------|
| 9510     | 1/4"  | 1-3/8"        | 1/2"       | 1-1/4"          | 50       | 500       |
| 9515     | 5/16" | 1-5/8"        | 5/8"       | 1-1/2"          | 50       | 500       |

| CAT. NO. | SIZE | ANCHOR LENGTH | DRILL DIA. | MIN. HOLE DEPTH | STD. BOX | STD. CTN. |
|----------|------|---------------|------------|-----------------|----------|-----------|
| 9520     | 3/8" | 2"            | 3/4"       | 1-3/4"          | 50       | 250       |
| 9525     | 1/2" | 2-1/2"        | 7/8"       | 2-1/4"          | 25       | 250       |
| 9530     | 5/8" | 2-3/4"        | 1"         | 2-1/2"          | 25       | 100       |
| 9535     | 3/4" | 3-15/16"      | 1-1/4"     | 3-1/2"          | 10       | 50        |



## Single Expansion Anchor

Shell Expansion Anchor

BASE MATERIAL

Concrete

SIZE RANGE

1/4" to 5/8"

ANCHOR MATERIAL

Zamac Alloy

The Single is a machine bolt anchor designed for use in concrete, and may be suitable in block, brick and stone base materials. The anchor consists of a pre-assembled set of expansion shields and an expander cone formed from Zamac alloy.

| CAT. NO. | SIZE  | ANCHOR LENGTH | DRILL DIA. | MIN. HOLE DEPTH | STD. BOX | STD. CTN. |
|----------|-------|---------------|------------|-----------------|----------|-----------|
| 9650     | 1/4"  | 1-5/16"       | 1/2"       | 1-3/8"          | 50       | 250       |
| 9655     | 5/16" | 1-1/2"        | 5/8"       | 1-5/8"          | 50       | 250       |
| 9665     | 3/8"  | 1-1/2"        | 5/8"       | 1-5/8"          | 50       | 250       |
| 9675     | 1/2"  | 2-1/16"       | 7/8"       | 2-1/2"          | 25       | 125       |
| 9685     | 5/8"  | 2-5/8"        | 1"         | 2-3/4"          | 25       | 1         |



## Calk-In

Machine Screw Anchor

BASE MATERIAL

Concrete, Block, Brick

SIZE RANGE

8 - 32 to 3/4" - 10

ANCHOR MATERIAL

Zamac Alloy and Lead

The Calk-In is a pre-assembled precision cast calking type machine bolt anchor which can be used in concrete, block, brick or stone. The anchor consists of an antimonial lead alloy calking sleeve and a Zamac alloy internally-threaded expander cone.

| CALK-IN  |          |            |            |          |           |  |
|----------|----------|------------|------------|----------|-----------|--|
| CAT. NO. | SIZE     | DRILL DIA. | MIN. DEPTH | STD. BOX | STD. CTN. |  |
| 9205     | 8-32     | 5/16"      | 1/2"       | 100      | 1000      |  |
| 9210     | 10-24    | 3/8"       | 5/8"       | 100      | 1000      |  |
| 9220     | 1/4"-20  | 1/2"       | 7/8"       | 100      | 1000      |  |
| 9225     | 5/16"-18 | 5/8"       | 1"         | 50       | 250       |  |
| 9230     | 3/8"-16  | 3/4"       | 1-1/4"     | 50       | 250       |  |
| 9240     | 1/2"-13  | 7/8"       | 1-1/2"     | 50       | 250       |  |
| 9250     | 3/4"-10  | 1-1/4"     | 2-1/4"     | 50       | -         |  |

### MASTER PACK

| CAT. NO. | SIZE    | DRILL DIA. | MIN. DEPTH | MASTER CTN. |
|----------|---------|------------|------------|-------------|
| 9222     | 1/4"-20 | 1/2"       | 7/8"       | 1000        |

Calk-In tools purchased separately (not included).

| CALK-IN SETTING TOOLS |       |          |           |  |
|-----------------------|-------|----------|-----------|--|
| CAT. NO.              | SIZE  | STD. BOX | STD. CTN. |  |
| 9201                  | 8     | 1        | 1         |  |
| 9211                  | 10    | 1        | 1         |  |
| 9221                  | 1/4"  | 1        | 1         |  |
| 9226                  | 5/16" | 1        | 1         |  |
| 9231                  | 3/8"  | 1        | 1         |  |
| 9241                  | 1/2"  | 1        | 1         |  |



## Lag Shield

Shell Expansion Anchor

BASE MATERIAL

Concrete and Mortar Joints of Block and Brick

SIZE RANGE

1/4" to 3/4"

ANCHOR MATERIAL

Zamac Alloy

The Lag Shield is a screw style anchor designed for use with lag bolts. It is suitable for use in concrete and the mortar joints of block or brick walls. Lag Shield anchors are formed from Zamac alloy. In harder masonry materials, short style Lag Shields are used to reduce drilling time. The long style Lag Shields are used in soft or weak masonry to engage more base material.

| CAT. NO. | SIZE        | DRILL DIA. | MIN. EMBED. | STD. BOX | STD. CTN. |
|----------|-------------|------------|-------------|----------|-----------|
| 1051     | 1/4" Short  | 1/2"       | 1"          | 50       | 500       |
| 1055     | 1/4" Long   | 1/2"       | 1-1/2"      | 50       | 500       |
| 1101     | 5/16" Short | 1/2"       | 1-1/4"      | 50       | 500       |
| 1105     | 5/16" Long  | 1/2"       | 1-3/4"      | 50       | 500       |
| 1151     | 3/8" Short  | 5/8"       | 1-3/4"      | 50       | 500       |
| 1155     | 3/8" Long   | 5/8"       | 2-1/2"      | 50       | 250       |
| 1201     | 1/2" Short  | 3/4"       | 2"          | 50       | 500       |
| 1205     | 1/2" Long   | 3/4"       | 3"          | 50       | 200       |
| 1251     | 5/8" Short  | 7/8"       | 2"          | 25       | 125       |
| 1255     | 5/8" Long   | 7/8"       | 3-1/2"      | 25       | 125       |
| 1301     | 3/4" Short  | 1"         | 2"          | 25       | 125       |
| 1305     | 3/4" Long   | 1"         | 3-1/2"      | 25       | 100       |



## Heli-Pin™

Facade Anchor

BASE MATERIAL

Concrete, Block, Brick, Stone, Clay Tile and Wood

SIZE RANGE

8mm (5/16") x 6" to 8mm (5/16") x 12"

ANCHOR MATERIAL

Type 304 Stainless Steel

The Heli-Pin anchor is a one-piece, stainless steel helical wall tie system used for anchoring existing brick veneers to the back-up structural members without exposed hardware. Existing facades constructed of various masonry materials can be reattached and reinforced using the Heli-Pin. They are ideal for stabilizing areas with missing or corroded wall ties as well as retrofits to multiple width masonry wall sections. The Heli-Pin is installed in predrilled holes with a Heli-Pin setting tool and a SDS-Plus shank roto-hammer drill.

| CAT. NO. | ITEM DESCRIPTION                  | STD. BOX | STD. CTN. |
|----------|-----------------------------------|----------|-----------|
| 08341    | Heli-Pin Anchor 8mm (5/16") x 6"  | 100      | 1000      |
| 08342    | Heli-Pin Anchor 8mm (5/16") x 8"  | 100      | 1000      |
| 08343    | Heli-Pin Anchor 8mm (5/16") x 10" | 100      | 1000      |
| 08344    | Heli-Pin Anchor 8mm (5/16") x 12" | 50       | 500       |
| 08345    | Heli-Pin SDS Setting Tool         | 1        | 12        |

# Vertigo® / Vertigo™+

## Rod Hanger System

**BASE MATERIAL**

Steel, Wood, Concrete,

**SIZE RANGE**

1/4" – 1/2"

**ANCHOR MATERIAL**

Carbon Steel

Vertigo is an all steel threaded fastening system for suspending steel threaded rod and other assemblies. Vertigo can be installed in a variety of base materials including steel bar joists and beams, wood frame columns and beams, as well as concrete beams and columns. In wood and steel base materials, Vertigo is also offered in a side mount style for lateral installation of 1/4" and 3/8" diameter steel threaded rods onto joists, columns and trusses. For all steel and wood Vertigo fasteners, a red Vertigo Socket Driver is recommended to provide proper installation with a screw gun or hammer drill in "rotation only" mode. Concrete Vertigo fasteners should be installed with the appropriate size standard drive sockets and hammer drill or powered impact wrench.



**CODE LISTED**  
ICC-ES ESR-2989

**CONCRETE VERTIGO+**

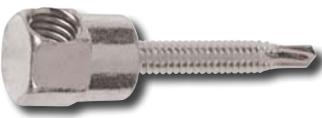
| CAT. NO. | ROD SIZE | SCREW SHANK SIZE & LENGTH | FINISH                   | STD. BOX | STD. CTN. |
|----------|----------|---------------------------|--------------------------|----------|-----------|
| 7180SD*  | 1/4"     | 3/8" x 2-1/8"             | Yellow Dichromate Finish | 100      | 500       |
| 7181SD*  | 3/8"     | 3/8" x 2-1/8"             | Yellow Dichromate Finish | 100      | 500       |
| 7182SD*  | 1/2"     | 3/8" x 2-1/8"             | Yellow Dichromate Finish | 50       | 250       |

\* Packed with SDS Wedge-Bit



**STEEL VERTICAL HANGER**

| CAT. NO.              | ROD SIZE | SCREW SHANK SIZE & LENGTH | POINT STYLE | STD. BOX | STD. CTN. |
|-----------------------|----------|---------------------------|-------------|----------|-----------|
| <b>#3 FOR PURLINS</b> |          |                           |             |          |           |
| 7155                  | 1/4"     | 1/4-20 x 1"               | #3          | 100      | 500       |
| 7157                  | 3/8"     | 1/4-20 x 2"               | #3          | 100      | 500       |
| 7158                  | 3/8"     | 1/4-20 x 1" (w/nuts)      | #3          | 100      | 500       |
| 7159                  | 3/8"     | 1/4-20 x 1-1/2"           | #3          | 100      | 500       |
| 7160                  | 3/8"     | 1/4-20 x 1-1/2" (w/nuts)  | #3          | 100      | 500       |
| <b>#5 FOR BEAMS</b>   |          |                           |             |          |           |
| 7152                  | 1/4"     | 12-20 x 1-1/2"            | #5          | 100      | 500       |
| 7154                  | 3/8"     | 12-20 x 1-1/2" (w/nuts)   | #5          | 100      | 500       |
| 7161                  | 1/2"     | 12-20 x 1-1/2" (w/nuts)   | #5          | 100      | 500       |



**STEEL SIDE HANGER**

| CAT. NO.              | ROD SIZE | SCREW SHANK SIZE & LENGTH | POINT STYLE | STD. BOX | STD. CTN. |
|-----------------------|----------|---------------------------|-------------|----------|-----------|
| <b>#3 FOR PURLINS</b> |          |                           |             |          |           |
| 7183                  | 1/4"     | 1/4-20 x 1"               | #3          | 100      | 500       |
| 7184                  | 3/8"     | 1/4-20 x 1" (w/nuts)      | #3          | 100      | 500       |
| 7186                  | 3/8"     | 1/4-20 x 1-1/2" (w/nuts)  | #3          | 100      | 500       |
| 7188                  | 3/8"     | 1/4-20 x 2" (w/nuts)      | #3          | 100      | 500       |
| <b>#5 FOR BEAMS</b>   |          |                           |             |          |           |
| 7200                  | 1/4"     | 12-20 x 1-1/2"            | #5          | 50       | 250       |
| 7201                  | 3/8"     | 12-20 x 1-1/2" (w/nuts)   | #5          | 100      | 500       |



**WOOD VERTICAL HANGER**

| CAT. NO. | ROD SIZE | SCREW SHANK SIZE & LENGTH | POINT STYLE | STD. BOX | STD. CTN. |
|----------|----------|---------------------------|-------------|----------|-----------|
| 7163     | 1/4"     | 1/4" x 2"                 | Type 17     | 100      | 500       |
| 7203     | 3/8"     | 1/4" x 1"                 | Type 17     | 100      | 500       |
| 7165     | 3/8"     | 1/4" x 2"                 | Type 17     | 100      | 500       |
| 7167     | 3/8"     | 1/4" x 3"                 | Type 17     | 100      | 500       |
| 7169     | 3/8"     | 1/4" x 4"                 | Type 17     | 100      | 500       |
| 7162     | 3/8"     | 5/16" x 2-1/2"            | Type 17     | 100      | 500       |
| 7164     | 1/2"     | 5/16" x 2-1/2"            | Type 17     | 100      | 500       |



**WOOD SIDE HANGER**

| CAT. NO. | ROD SIZE | SCREW SHANK SIZE & LENGTH | POINT STYLE | STD. BOX | STD. CTN. |
|----------|----------|---------------------------|-------------|----------|-----------|
| 7185     | 1/4"     | 1/4" x 1"                 | Type 17     | 100      | 500       |
| 7205     | 3/8"     | 1/4" x 1"                 | Type 17     | 100      | 500       |
| 7170     | 3/8"     | 1/4" x 2"                 | Type 17     | 100      | 500       |
| 7156     | 3/8"     | 5/16" x 2-1/2"            | Type 17     | 100      | 500       |



**CONCRETE VERTICAL HANGER**

| CAT. NO. | ROD SIZE | SCREW SHANK SIZE & LENGTH | SHANK STYLE               | STD. BOX | STD. CTN. |
|----------|----------|---------------------------|---------------------------|----------|-----------|
| 7171     | 1/4"     | 1/4" x 1-1/4"             | ANSI Wedge-Bolt OT thread | 100      | 500       |
| 7173     | 3/8"     | 1/4" x 1-1/2"             | ANSI Wedge-Bolt OT thread | 100      | 500       |
| 7175     | 1/2"     | 3/8" x 2-3/4"             | ANSI Wedge-Bolt OT thread | 50       | 250       |

For side Mount Concrete Applications use Cat. No. 7185 and 7170 with a 3/16" ANSI Drill Bit

## Vertigo® Accessories



**POLE TOOL**

| CAT. NO. | DESCRIPTION                                 | BOX | CARTON |
|----------|---------------------------------------------|-----|--------|
| 7166     | 6'-12' Pole Tool (includes three Jaw Chuck) | 1   | 1      |



**DRIVER SOCKET**

| CAT. NO. | DESCRIPTION                   | COLOR | STD. BOX | STD. CTN. |
|----------|-------------------------------|-------|----------|-----------|
| 7187     | Universal Steel & Wood Socket | Red   | 5        | 25        |
| 7195     | 1/4" Concrete Socket          | Blue  | 5        | 25        |
| 7197     | 3/8" Concrete Socket          | Blue  | 5        | 25        |
| 7198     | 1/2" Concrete Socket          | Blue  | 5        | 25        |



**VERTIGO TOOL KIT**

| CAT. NO. | DESCRIPTION                                                                                                   | STD. BOX | STD. CTN. |
|----------|---------------------------------------------------------------------------------------------------------------|----------|-----------|
| 5864     | Sleeve Assembly (same as cat. #5874) 1/4" and 3/8" blue concrete drive sockets and red universal drive socket | 1        | 10        |
| 5874     | Sleeve Assembly                                                                                               | 1        | -         |

| CAT. NO. | DESCRIPTION                       | USABLE LENGTH | STD. TUBE | WT./10 |
|----------|-----------------------------------|---------------|-----------|--------|
| 5866     | 1/4" x 6" Hex Shank SDS Drill Bit | 4"            | 1         | 1/2    |



## Bang-It™

Concrete Inserts

BASE MATERIAL

Concrete, Lightweight Concrete

SIZE RANGE

1/4" to 7/8"

ANCHOR MATERIAL

Carbon Steel and Engineered Plastic

Bang-It concrete inserts are designed for installation through pre-drilled metal composite deck (i.e. "pan deck") used to support a newly poured concrete floor or roof slab. Depending upon the size/color chosen, the protective sleeve protrudes below the surface of the deck allowing overhead attachment of steel threaded rod in sizes ranging from 1/4" to 7/8" in diameter. The protective sleeve prevents sprayed fireproofing material and acoustical dampening products from clogging the internal threads of the insert inside, as well as burying, masking or losing the insert location. The unique, six-sided impact plate offers resistance to rotation within the concrete as a steel threaded rod is being installed.

| CAT. NO. | DESCRIPTION                                      | PRE DRILLED HOLE | STD. BOX | PALLET |
|----------|--------------------------------------------------|------------------|----------|--------|
| 7540     | 1/4" Brown Bang-It                               | 13/16"           | 100      | 4000   |
| 7542     | 3/8" Green Bang-It                               | 13/16"           | 100      | 4000   |
| 7544     | 1/2" Yellow Bang-It                              | 13/16"           | 100      | 4000   |
| 7546     | 5/8" Red Bang-It                                 | 1-3/16"          | 50       | 2400   |
| 7548     | 3/4" Purple Bang-It                              | 1-3/16"          | 50       | 2400   |
| 7549     | 7/8" Black Bang-It                               | 1-3/16"          | 50       | 2400   |
| 7560     | Bang-It Deck Driller                             |                  | 1        |        |
| 7562     | 13/16" Carbide Hole Saw for 1/4", 3/8" and 1/2"  |                  | 1        |        |
| 7564     | 1-3/16" Carbide Hole Saw for 5/8", 3/4" and 7/8" |                  | 1        |        |
| 7566     | Carbide Hole Saw Center Bit                      |                  | 1        |        |



## Wood-Knocker™

Concrete Inserts

BASE MATERIAL

Concrete, Lightweight Concrete

SIZE RANGE

1/4" to 3/4"

ANCHOR MATERIAL

Carbon Steel and Engineered Plastic

Wood-Knocker concrete inserts are installed onto wooden forms used to support a newly poured concrete floor slabs, roof slabs or walls. When the forms are stripped, the color-coded flange is easily seen embedded in the concrete surface allowing attachment of steel threaded rod or threaded bolts in sizes ranging from 1/4" to 3/4" in diameter. The unique six-sided impact plate offers resistance to rotation within the concrete as a steel threaded rod or threaded bolt is being installed.

| CAT. NO. | DESCRIPTION                   | STD. BOX | PALLET |
|----------|-------------------------------|----------|--------|
| 7550     | 1/4" Brown Wood Knocker       | 200      | 9600   |
| 7552     | 3/8" Green Wood Knocker       | 200      | 9600   |
| 7554     | 1/2" Yellow Wood Knocker      | 200      | 9600   |
| 7556     | 5/8" Red Wood Knocker         | 150      | 6000   |
| 7558     | 3/4" Purple Wood Knocker      | 150      | 6000   |
| 7567     | 1/2" Coil Thread Wood Knocker | 200      | 9600   |
| 7568     | 3/4" Coil Thread Wood Knocker | 150      | 6000   |



## Spike®

Pre-Expanded Anchor

BASE MATERIAL

Concrete, Block

SIZE RANGE

3/16" x 1" to 1/2" x 6-1/2"

ANCHOR MATERIAL

Carbon Steel and Type 316 Stainless Steel

The Spike anchor is a patented, one-piece, tamper-proof anchor for use in concrete, block, brick or stone. Several head styles are available and offered in carbon and type 316 stainless steel. The Spike anchor is formed with an "s" shaped configuration at the working end of the anchor to create an expansion mechanism. Since the anchor is pre-expanded, there is no secondary tightening operation.

### MUSHROOM HEAD GRADE 8.2 CARBON STEEL SPIKE

| CAT. NO. | SIZE           | DRILL DIA. | MIN. EMBED. | STD. BOX | STD. CTN. |
|----------|----------------|------------|-------------|----------|-----------|
| 5502     | 3/16" x 1"     | 3/16"      | 7/8"        | 100      | 1000      |
| 5503     | 3/16" x 1-1/4" | 3/16"      | 7/8"        | 100      | 1000      |
| 5504     | 3/16" x 1-1/2" | 3/16"      | 1-1/4"      | 100      | 1000      |
| 5506     | 3/16" x 2"     | 3/16"      | 1-1/4"      | 100      | 1000      |
| 5508     | 3/16" x 2-1/2" | 3/16"      | 1-1/4"      | 100      | 1000      |
| 5510     | 3/16" x 3"     | 3/16"      | 1-1/4"      | 100      | 1000      |
| 5511     | 3/16" x 3-1/2" | 3/16"      | 1-1/4"      | 100      | 1000      |
| 5512     | 3/16" x 4"     | 3/16"      | 1-1/4"      | 100      | 500       |
| 5522     | 1/4" x 1"      | 1/4"       | 7/8"        | 100      | 1000      |
| 5523     | 1/4" x 1-1/4"  | 1/4"       | 1"          | 100      | 1000      |
| 5524     | 1/4" x 1-1/2"  | 1/4"       | 1-1/4"      | 100      | 1000      |
| 5526     | 1/4" x 2"      | 1/4"       | 1-1/4"      | 100      | 1000      |
| 5528     | 1/4" x 2-1/2"  | 1/4"       | 1-1/4"      | 100      | 1000      |
| 5530     | 1/4" x 3"      | 1/4"       | 1-1/4"      | 100      | 1000      |
| 5531     | 1/4" x 3-1/2"  | 1/4"       | 1-1/4"      | 100      | 1000      |
| 5532     | 1/4" x 4"      | 1/4"       | 1-1/4"      | 100      | 1000      |
| 5546     | 3/8" x 2"      | 3/8"       | 1-3/4"      | 25       | 250       |
| 5548     | 3/8" x 2-1/2"  | 3/8"       | 1-3/4"      | 25       | 250       |
| 5550     | 3/8" x 3"      | 3/8"       | 1-3/4"      | 25       | 250       |
| 5551     | 3/8" x 3-1/2"  | 3/8"       | 1-3/4"      | 25       | 250       |
| 5552     | 3/8" x 4"      | 3/8"       | 1-3/4"      | 25       | 250       |
| 5554     | 3/8" x 5"      | 3/8"       | 1-3/4"      | 25       | 250       |
| 5556     | 3/8" x 6"      | 3/8"       | 1-3/4"      | 25       | 250       |
| 5569     | 1/2" x 2-3/4"  | 1/2"       | 2-1/2"      | 50       | 200       |
| 5571     | 1/2" x 3-1/2"  | 1/2"       | 2-1/2"      | 50       | 150       |
| 5572     | 1/2" x 4"      | 1/2"       | 2-1/2"      | 25       | 150       |
| 5574     | 1/2" x 5"      | 1/2"       | 2-1/2"      | 25       | 150       |
| 5577     | 1/2" x 6-1/2"  | 1/2"       | 2-1/2"      | 25       | 150       |

The published length is measured from below the head to the end of the anchor.



### FLAT HEAD GRADE 8.2 CARBON STEEL SPIKE

| CAT. NO. | SIZE           | DRILL DIA. | MIN. EMBED. | STD. BOX | STD. CTN. |
|----------|----------------|------------|-------------|----------|-----------|
| 5608     | 3/16" x 2-1/2" | 3/16"      | 1-1/4"      | 100      | 1000      |
| 5610     | 3/16" x 3"     | 3/16"      | 1-1/4"      | 100      | 1000      |
| 5612     | 3/16" x 4"     | 3/16"      | 1-1/4"      | 100      | 1000      |
| 5624     | 1/4" x 1-1/2"  | 1/4"       | 1-1/4"      | 100      | 1000      |
| 5626     | 1/4" x 2"      | 1/4"       | 1-1/4"      | 100      | 1000      |
| 5628     | 1/4" x 2-1/2"  | 1/4"       | 1-1/4"      | 100      | 1000      |
| 5630     | 1/4" x 3"      | 1/4"       | 1-1/4"      | 100      | 1000      |
| 5631     | 1/4" x 3-1/2"  | 1/4"       | 1-1/4"      | 100      | 1000      |
| 5632     | 1/4" x 4"      | 1/4"       | 1-1/4"      | 100      | 500       |

The published length is the overall length of the anchor.

| MUSHROOM HEAD TYPE 316 STAINLESS STEEL SPIKE |                |            |             |          |           |
|----------------------------------------------|----------------|------------|-------------|----------|-----------|
| CAT. NO.                                     | SIZE           | DRILL DIA. | MIN. EMBED. | STD. BOX | STD. CTN. |
| 6602                                         | 3/16" x 1"     | 3/16"      | 7/8"        | 100      | 1000      |
| 6603                                         | 3/16" x 1-1/4" | 3/16"      | 7/8"        | 100      | 1000      |
| 6604                                         | 3/16" x 1-1/2" | 3/16"      | 1-1/4"      | 100      | 1000      |
| 6606                                         | 3/16" x 2"     | 3/16"      | 1-1/4"      | 100      | 1000      |
| 6623                                         | 1/4" x 1-1/4"  | 1/4"       | 1"          | 100      | 1000      |
| 6624                                         | 1/4" x 1-1/2"  | 1/4"       | 1-1/4"      | 100      | 1000      |
| 6626                                         | 1/4" x 2"      | 1/4"       | 1-1/4"      | 100      | 1000      |
| 6628                                         | 1/4" x 2-1/2"  | 1/4"       | 1-1/4"      | 100      | 1000      |
| 6630                                         | 1/4" x 3"      | 1/4"       | 1-1/4"      | 100      | 1000      |
| 6646                                         | 3/8" x 2"      | 3/8"       | 1-3/4"      | 25       | 250       |
| 6648                                         | 3/8" x 2-1/2"  | 3/8"       | 1-3/4"      | 25       | 250       |
| 6650                                         | 3/8" x 3"      | 3/8"       | 1-3/4"      | 25       | 250       |

The published length is measured from below the head to the end of the anchor.

### Special Application Spike® Anchors



| ROD HANGING PIPE SPIKE GRADE 8.2 CARBON STEEL |      |            |             |          |           |
|-----------------------------------------------|------|------------|-------------|----------|-----------|
| CAT. NO.                                      | SIZE | DRILL DIA. | MIN. EMBED. | STD. BOX | STD. CTN. |
| 3755                                          | 1/4" | 3/16"      | 1-1/4"      | 100      | 1000      |
| 3758                                          | 3/8" | 1/4"       | 1-3/4"      | 50       | 500       |



| SUSPENDED CEILINGS TIE-WIRE SPIKE GRADE 8.2 CARBON STEEL |       |            |             |                    |          |           |
|----------------------------------------------------------|-------|------------|-------------|--------------------|----------|-----------|
| CAT. NO.                                                 | SIZE  | DRILL DIA. | MIN. EMBED. | TIE-WIRE HOLE SIZE | STD. BOX | STD. CTN. |
| 3756                                                     | 3/16" | 3/16"      | 1-1/4"      | 3/16"              | 100      | 500       |
| 3759                                                     | 1/4"  | 1/4"       | 1-1/4"      | 9/32"              | 100      | 500       |



| CONCRETE FORMING FORMING SPIKE GRADE 8.2 CARBON STEEL |                |            |             |          |           |
|-------------------------------------------------------|----------------|------------|-------------|----------|-----------|
| CAT. NO.                                              | ANCHOR SIZE    | DRILL DIA. | MIN. EMBED. | STD. BOX | STD. CTN. |
| 3795                                                  | 3/16" x 1-1/2" | 3/16"      | 1-1/4"      | 100      | 1000      |
| 3796                                                  | 3/16" x 2"     | 3/16"      | 1-1/4"      | 100      | 1000      |
| 3797                                                  | 3/16" x 2-3/4" | 3/16"      | 1-1/4"      | 100      | 1000      |
| 3794                                                  | 1/4" x 2-3/4"  | 1/4"       | 1-1/4"      | 100      | 1000      |

While the Spike anchor can easily be installed using a hammer, a specially designed series of drivers and manual tools provide a fast, easy to use method for installation into concrete and masonry materials. The tools allow Spike anchors to be installed in confined areas and prevent damage to the fixture from stray hammer blows.



| SPIKE INSTALLATION TOOLS |                   |          |          |
|--------------------------|-------------------|----------|----------|
| CAT. NO.                 | TOOL DESCRIPTION  | TIP O.D. | STD. BOX |
| 3790                     | Spike Driver 1000 | 1/2"     | 1        |
| 3791                     | Spike Driver 2000 | 1/2"     | 1        |



| PIPE SPIKE TOOL |                         |          |          |
|-----------------|-------------------------|----------|----------|
| CAT. NO.        | TOOL DESCRIPTION        | TIP O.D. | STD. BOX |
| 3760            | Pipe Spike Setting Tool | 5/16"    | 1        |

### Drive®

#### Split Pin Type Pre-Expander Anchor

|                 |                             |
|-----------------|-----------------------------|
| BASE MATERIAL   | Concrete                    |
| SIZE RANGE      | 3/16" x 1-1/2" to 1/2" x 3" |
| ANCHOR MATERIAL | Carbon Steel                |

The Drive is a one piece tamper-proof, pre-expanded anchor available in carbon steel for use in concrete and stone. Tie-Wire Drive anchors are used for suspended ceiling applications. The flat head (counter-sunk) style is particularly suited for wood-to-concrete anchoring. The round head style is for all other applications requiring fast, permanent installations.



| ROUND HEAD DRIVE |               |            |            |          |           |
|------------------|---------------|------------|------------|----------|-----------|
| CAT. NO.         | SIZE          | DRILL DIA. | MIN. DEPTH | STD. BOX | STD. CTN. |
| 3211             | 1/4" x 1-1/4" | 1/4"       | 1-1/8"     | 100      | 1000      |
| 3241             | 1/4" x 1-1/2" | 1/4"       | 1-1/8"     | 100      | 1000      |
| 3271             | 1/4" x 2"     | 1/4"       | 1-1/8"     | 100      | 1000      |
| 3301             | 1/4" x 2-1/2" | 1/4"       | 1-1/8"     | 100      | 1000      |
| 3601             | 3/8" x 2"     | 3/8"       | 1-7/8"     | 25       | 250       |
| 3631             | 3/8" x 2-1/2" | 3/8"       | 1-7/8"     | 25       | 250       |
| 3691             | 3/8" x 3-1/2" | 3/8"       | 1-7/8"     | 25       | 250       |
| 3781             | 1/2" x 3"     | 1/2"       | 2-5/8"     | 25       | 125       |



| FLAT HEAD DRIVE |                |            |            |          |           |
|-----------------|----------------|------------|------------|----------|-----------|
| CAT. NO.        | SIZE           | DRILL DIA. | MIN. DEPTH | STD. BOX | STD. CTN. |
| 3092            | 3/16" x 1-1/2" | 3/16"      | 7/8"       | 100      | 1000      |
| 3122            | 3/16" x 2"     | 3/16"      | 7/8"       | 100      | 1000      |
| 3152            | 3/16" x 2-1/2" | 3/16"      | 7/8"       | 100      | 1000      |
| 3162            | 3/16" x 3"     | 3/16"      | 7/8"       | 100      | 1000      |
| 3242            | 1/4" x 1-1/2"  | 1/4"       | 1-1/8"     | 100      | 1000      |
| 3272            | 1/4" x 2"      | 1/4"       | 1-1/8"     | 100      | 1000      |
| 3302            | 1/4" x 2-1/2"  | 1/4"       | 1-1/8"     | 100      | 1000      |
| 3332            | 1/4" x 3"      | 1/4"       | 1-1/8"     | 100      | 1000      |
| 3362            | 1/4" x 3-1/2"  | 1/4"       | 1-1/8"     | 100      | 1000      |
| 3392            | 1/4" x 4"      | 1/4"       | 1-1/8"     | 100      | 500       |



| TIE-WIRE DRIVE (13/64" TIE-WIRE HOLE) |                             |            |            |          |           |
|---------------------------------------|-----------------------------|------------|------------|----------|-----------|
| CAT. NO.                              | SIZE                        | DRILL DIA. | MIN. DEPTH | STD. BOX | STD. CTN. |
| 3244                                  | 1/4" x 1-3/4"               | 1/4"       | 1-1/8"     | 500      | 500       |
| 3245                                  | 1/4" x 1-3/4"               | 1/4"       | 1-1/8"     | 100      | 500       |
| 3250                                  | Tie-Wire Setting Tool Drive |            |            | 1        | 1         |

## Zamac Hammer-Screw®

Nail Anchor

BASE MATERIAL

Concrete, Block, Brick, Stone

SIZE RANGE

1/4" x 3/4" to 1/4" x 3"

ANCHOR MATERIAL

Zamac Alloy with Carbon Steel and Perma-Seal Drive Screw

The Zamac Hammer-Screw is a unique, one-step drive anchor featuring a Phillips type head and an internal screw thread for use in concrete, block, brick or stone. The anchor has a body formed from corrosion resistant Zamac alloy with a carbon steel drive screw, and has been developed as an improvement over standard nailin anchors. The anchor is removable and is also offered with an optional Perma-Seal coated screw.



### ZAMAC HAMMER-SCREW - MUSHROOM HEAD / NO. 2 PHILLIPS TYPE SCREW CARBON STEEL

| CAT. NO. | SIZE          | DRILL DIA. | STD. BOX | STD. CTN. |
|----------|---------------|------------|----------|-----------|
| 2839     | 1/4" x 3/4"   | 1/4"       | 100      | 500       |
| 2840     | 1/4" x 1"     | 1/4"       | 100      | 500       |
| 2842     | 1/4" x 1-1/4" | 1/4"       | 100      | 500       |
| 2844     | 1/4" x 1-1/2" | 1/4"       | 100      | 500       |
| 2846     | 1/4" x 2"     | 1/4"       | 100      | 500       |
| 2848     | 1/4" x 2-1/4" | 1/4"       | 100      | 500       |
| 2850     | 1/4" x 3"     | 1/4"       | 100      | 500       |

### MASTER PACK WITH CARBON STEEL SCREW

| CAT. NO. | SIZE          | DRILL DIA. | STD. BOX | STD. CTN. |
|----------|---------------|------------|----------|-----------|
| 2939     | 1/4" x 3/4"   | 1/4"       | 1000     | 1000      |
| 2940     | 1/4" x 1"     | 1/4"       | 1000     | 1000      |
| 2942     | 1/4" x 1-1/4" | 1/4"       | 1000     | 1000      |
| 2944     | 1/4" x 1-1/2" | 1/4"       | 1000     | 1000      |
| 2946     | 1/4" x 2"     | 1/4"       | 1000     | 1000      |
| 2948     | 1/4" x 2-1/4" | 1/4"       | 1000     | 1000      |
| 2949     | 1/4" x 3"     | 1/4"       | 1000     | 1000      |

### ZAMAC HAMMER-SCREW - MUSHROOM HEAD WITH NO. 2 PHILLIPS TYPE PERMA-SEAL SCREW

| CAT. NO. | SIZE          | DRILL DIA. | STD. BOX | STD. CTN. |
|----------|---------------|------------|----------|-----------|
| 2817     | 1/4" x 1-1/4" | 1/4"       | 100      | 500       |

### MASTER PACK WITH PERMA-SEAL SCREW

| CAT. NO. | SIZE          | DRILL DIA. | STD. BOX | STD. CTN. |
|----------|---------------|------------|----------|-----------|
| 2818     | 1/4" x 1-1/4" | 1/4"       | 1000     | 1000      |



**CODE LISTED**  
ICC-ES ESR-3057  
CRACKED & UNCRACKED  
CONCRETE  
(REDUNDANT FASTENING)



## Safe-T+ Pin

Nail Anchor

BASE MATERIAL

Concrete, Block, Brick, Stone

SIZE RANGE

1/4" x 1-3/8" and 1/4" x 2-1/2"

ANCHOR MATERIAL

Carbon Steel

The new Powers Safe-T+ Pin is a one piece, all steel, nail drive anchor that can be used in concrete, block, brick or stone. Each box of Safe-T+ pins comes with a 6MM SDS carbide drill bit for ease of installation. Typical applications include HVAC Duct Straps, light to medium duty signage, and termination bar, flooring ECT. Available in 1 diameter and two lengths. Just drill a hole and hammer it in.

### SAFE-T+ PIN

| CAT. NO. | SIZE                | DRILL DIA. | STD. BOX | STD. CTN. |
|----------|---------------------|------------|----------|-----------|
| 2800SD   | 6mm (1/4") x 1-3/8" | 6mm        | 100      | 600       |
| 2801SD   | 6mm (1/4") x 2-1/2" | 6mm        | 100      | 600       |



### SAFE-T+ PIN DRILL BIT

| CAT. NO. | DESCRIPTION | DIA. | USABLE LENGTH | STD. BOX | STD. CTN. |
|----------|-------------|------|---------------|----------|-----------|
| 2800     | Drill Bit   | 6mm  | 3-1/4"        | 1        | 50        |

## Zamac Nailin®

Drive Pin Type Anchor

BASE MATERIAL

Concrete, Block, Brick, Stone

SIZE RANGE

3/16" x 7/8" to 1/4" x 3"

ANCHOR MATERIAL

Zamac Alloy with Carbon or Stainless Steel Drive Pin

The Zamac Nailin is a tamper-proof nail drive anchor which has a body formed from Zamac alloy. Nails are available in carbon or stainless steel. The anchor can be used in concrete, block, brick or stone.



### MUSHROOM HEAD ZAMAC NAILIN - CARBON STEEL NAIL

| CAT. NO. | SIZE          | DRILL DIA. | STD. BOX | STD. CTN. |
|----------|---------------|------------|----------|-----------|
| 2802     | 3/16" x 7/8"  | 3/16"      | 100      | 500       |
| 2806     | 1/4" x 3/4"   | 1/4"       | 100      | 500       |
| 2808     | 1/4" x 1"     | 1/4"       | 100      | 50        |
| 2814     | 1/4" x 1-1/4" | 1/4"       | 100      | 500       |
| 2820     | 1/4" x 1-1/2" | 1/4"       | 100      | 500       |
| 2826     | 1/4" x 2"     | 1/4"       | 100      | 500       |
| 2804     | 1/4" x 3"     | 1/4"       | 100      | 500       |

### MASTER PACK

| CAT. NO. | SIZE          | DRILL DIA. | STD. BOX | STD. CTN. |
|----------|---------------|------------|----------|-----------|
| 2803     | 3/16" x 7/8"  | 3/16"      | 1000     | 1000      |
| 2807     | 1/4" x 3/4"   | 1/4"       | 1000     | 1000      |
| 2809     | 1/4" x 1"     | 1/4"       | 1000     | 1000      |
| 2815     | 1/4" x 1-1/4" | 1/4"       | 1000     | 1000      |
| 2821     | 1/4" x 1-1/2" | 1/4"       | 1000     | 1000      |
| 2827     | 1/4" x 2"     | 1/4"       | 1000     | 1000      |
| 2805     | 1/4" x 3"     | 1/4"       | 1000     | 1000      |



| FLAT HEAD ZAMAC NAILIN - CARBON STEEL NAIL |               |            |          |           |
|--------------------------------------------|---------------|------------|----------|-----------|
| CAT. NO.                                   | SIZE          | DRILL DIA. | STD. BOX | STD. CTN. |
| 2836                                       | 1/4" x 1-1/2" | 1/4"       | 100      | 500       |
| 2838                                       | 1/4" x 2"     | 1/4"       | 100      | 500       |



| MUSHROOM HEAD ZAMAC NAILIN - STAINLESS STEEL NAIL |               |            |          |           |
|---------------------------------------------------|---------------|------------|----------|-----------|
| CAT. NO.                                          | SIZE          | DRILL DIA. | STD. BOX | STD. CTN. |
| 2858                                              | 1/4" x 1"     | 1/4"       | 100      | 500       |
| 2864                                              | 1/4" x 1-1/4" | 1/4"       | 100      | 500       |
| 2870                                              | 1/4" x 1-1/2" | 1/4"       | 100      | 500       |
| 2876                                              | 1/4" x 2"     | 1/4"       | 100      | 500       |



| MUSHROOM HEAD NYLON NAILIN STAINLESS STEEL NAIL |               |            |          |           |
|-------------------------------------------------|---------------|------------|----------|-----------|
| CAT. NO.                                        | SIZE          | DRILL DIA. | STD. BOX | STD. CTN. |
| 2528                                            | 1/4" x 1"     | 1/4"       | 100      | 1000      |
| 2548                                            | 1/4" x 1-1/2" | 1/4"       | 100      | 1000      |



| MUSHROOM HEAD BODIES ONLY |           |            |          |           |
|---------------------------|-----------|------------|----------|-----------|
| CAT. NO.                  | SIZE      | DRILL DIA. | STD. BOX | STD. CTN. |
| 2574                      | 1/4" x 3" | 1/4"       | 2500     | 2500      |

## Nylon Nailin®

Plastic Drive Pin Type Anchor

BASE MATERIAL

Concrete, Block, Brick, Stone

SIZE RANGE

3/16" x 1" to 1/4" x 6"

ANCHOR MATERIAL

Engineered Nylon with Carbon or Stainless Steel Drive Pin

The Nylon Nailin is a pin drive anchor with a body formed from engineered nylon and nails available in carbon and stainless steel. The anchor can be used in concrete, block, brick or stone.



| ROUND HEAD NYLON NAILIN - CARBON STEEL NAIL |                |            |          |           |
|---------------------------------------------|----------------|------------|----------|-----------|
| CAT. NO.                                    | SIZE           | DRILL DIA. | STD. BOX | STD. CTN. |
| 2431                                        | 3/16" x 1"     | 3/16"      | 100      | 1000      |
| 2451                                        | 3/16" x 1-1/2" | 3/16"      | 100      | 1000      |
| 2521                                        | 1/4" x 1"      | 1/4"       | 100      | 1000      |
| 2541                                        | 1/4" x 1-1/2"  | 1/4"       | 100      | 1000      |



| FLAT HEAD NYLON NAILIN- CARBON STEEL NAIL |               |            |          |           |
|-------------------------------------------|---------------|------------|----------|-----------|
| CAT. NO.                                  | SIZE          | DRILL DIA. | STD. BOX | STD. CTN. |
| 2542                                      | 1/4" x 1-1/2" | 1/4"       | 100      | 1000      |
| 2562                                      | 1/4" x 2"     | 1/4"       | 100      | 1000      |



| MUSHROOM HEAD NYLON NAILIN CARBON STEEL NAIL |               |            |          |           |
|----------------------------------------------|---------------|------------|----------|-----------|
| CAT. NO.                                     | SIZE          | DRILL DIA. | STD. BOX | STD. CTN. |
| 2433                                         | 3/16" x 1"    | 3/16"      | 100      | 1000      |
| 2513                                         | 1/4" x 3/4"   | 1/4"       | 100      | 1000      |
| 2523                                         | 1/4" x 1"     | 1/4"       | 100      | 1000      |
| 2543                                         | 1/4" x 1-1/2" | 1/4"       | 100      | 1000      |
| 2563                                         | 1/4" x 2"     | 1/4"       | 100      | 1000      |
| 2573                                         | 1/4" x 3"     | 1/4"       | 100      | 1000      |
| 2583                                         | 1/4" x 4"     | 1/4"       | 100      | 1000      |

|                         |                  | Page | Base Material |                      |                               |                         |             |              | Anchor Diameter |                      |      |           |           |           |           |           |         |              | Anchor Elements |        | Chemistry |    |                            |                          | Hole Condition |                   | Code Recognition |              |                                              |
|-------------------------|------------------|------|---------------|----------------------|-------------------------------|-------------------------|-------------|--------------|-----------------|----------------------|------|-----------|-----------|-----------|-----------|-----------|---------|--------------|-----------------|--------|-----------|----|----------------------------|--------------------------|----------------|-------------------|------------------|--------------|----------------------------------------------|
|                         |                  |      | Concrete      | Lightweight Concrete | Grout-filled Concrete/Masonry | Hollow Concrete Masonry | Solid Brick | Hollow Brick | Stone           | Structural Clay/Tile | 1/4" | 3/8" (#3) | 1/2" (#4) | 5/8" (#5) | 3/4" (#6) | 7/8" (#7) | 1" (#8) | 1-1/4" (#10) | 1-3/8"          | 1-1/2" | 1-3/4"    | 2" | Coated/Plated Carbon Steel | Type 304 Stainless Steel | Epoxy          | Ester Based Resin |                  | Polyurethane | MS Polymer                                   |
| Injection Adhesives     | AC100+Gold       | 26   | ●             | ○                    | ●                             | ●                       | ●           | ○            | ○               | ●                    | ●    | ●         | ●         | ●         | ●         | ●         | ○       | ○            | ○               | ○      |           |    | ●                          |                          |                |                   | ●                | ●            | Code Listed<br>ICC-ES ESR-2582               |
|                         | PE1000+          | 27   | ●             | ○                    | ○                             | ○                       | ○           | ○            | ○               | ○                    | ●    | ●         | ●         | ●         | ●         | ●         | ○       | ○            | ○               | ○      |           |    | ●                          |                          |                |                   | ●                | ●            | Code Listed<br>ICC-ES ESR-2583<br>LARR-25849 |
|                         | T308+            | 27   | ●             | ○                    | ○                             | ○                       | ○           | ○            | ○               | ○                    | ●    | ●         | ●         | ●         | ●         | ○         | ○       | ○            | ○               | ○      |           |    | ●                          |                          |                |                   | ●                | ○            | Code Listed<br>ICC-ES ESR-3066 &<br>3149     |
|                         | Pure50+          | 28   | ●             | ○                    | ○                             | ○                       |             | ○            |                 |                      | ●    | ●         | ●         | ●         | ●         | ●         |         |              |                 |        |           |    | ●                          |                          |                |                   | ●                | ●            | Tested To<br>ICC-ES AC 58                    |
|                         | Pure110+         | 29   | ●             | ○                    | ○                             | ○                       | ○           | ○            |                 |                      | ●    | ●         | ●         | ●         | ●         | ●         |         |              |                 |        |           |    | ●                          |                          |                |                   | ●                | ●            | Tested To<br>ICC-ES AC 308 &<br>ICC-ES AC 58 |
|                         | AC50 Silver      | 29   | ●             |                      |                               |                         |             |              |                 |                      | ●    | ●         | ●         | ●         | ●         |           |         |              |                 |        |           |    | ●                          |                          |                |                   | ●                | ●            |                                              |
| Glass Capsule Adhesives | Chem-Stud        | 30   | ●             | ○                    | ●                             |                         | ○           | ○            |                 | ●                    | ●    | ●         | ●         | ●         | ●         |           |         |              |                 |        |           |    | ●                          |                          |                |                   | ●                | ○            | Tested To<br>ICC-ES AC 58                    |
|                         | Hammer-Capsule   | 31   | ●             | ○                    | ○                             |                         | ○           | ○            |                 | ●                    | ●    | ●         | ●         | ●         | ●         | ○         |         |              |                 |        | ●         | ●  | ●                          |                          |                |                   | ●                | ○            | Tested To<br>ICC-ES AC 58                    |
| Anchor Hardware         | Straight Cut Rod | 32   | ●             | ●                    | ●                             | ●                       | ●           | ●            | ●               | ●                    | ●    | ●         | ●         | ●         | ●         | ●         |         |              |                 |        | ●         | ●  |                            |                          |                |                   |                  |              |                                              |
|                         | Chisel Point Rod | 30   | ●             | ○                    | ○                             |                         | ○           | ○            |                 | ●                    | ●    | ●         | ●         | ●         | ●         | ●         |         |              |                 |        | ●         |    |                            |                          |                |                   |                  |              |                                              |
| Expansion Foam          | PowerFoam        | 32   | ●             | ●                    | ●                             | ●                       | ●           | ●            | ●               |                      |      |           |           |           |           |           |         |              |                 |        |           |    | ●                          |                          |                |                   |                  |              |                                              |
|                         | PowerFoam Pro    | 33   | ●             | ●                    | ●                             | ●                       | ●           | ●            | ●               |                      |      |           |           |           |           |           |         |              |                 |        |           |    |                            | ●                        |                |                   |                  |              | Code Listed ICC-ES<br>ESR-3263               |
| Bonding Sealant         | PowerStick       | 33   | ●             | ●                    | ●                             | ●                       | ●           | ●            | ●               |                      |      |           |           |           |           |           |         |              |                 |        |           |    |                            | ●                        |                | ●                 | ●                |              |                                              |
| Adhesive Sealant        | PowerPatch       | 33   | ●             | ●                    |                               |                         |             |              |                 |                      |      |           |           |           |           |           |         |              |                 |        |           | ●  |                            |                          |                | ●                 |                  |              |                                              |

- Suitable
- May be Suitable



Mixing nozzle included with each cartridge

**AC100+Gold®**  
Adhesive Anchoring System

**CODE LISTED**  
ICC-ES ESR-2582

The AC100+Gold is a two-component vinyl ester adhesive anchoring system. The system includes injection adhesive in plastic cartridges, mixing nozzles, dispensing tools and hole cleaning equipment. The AC100+Gold is designed for bonding threaded rod and reinforcing bar hardware into drilled holes in concrete and masonry base materials.

| AC100+GOLD CARTRIDGES |                           |          |           |        |
|-----------------------|---------------------------|----------|-----------|--------|
| CAT. NO.              | DESCRIPTION               | STD. BOX | STD. CTN. | PALLET |
| 8462SD                | 5 fl. oz. Push-Pak        | 12       | 36        | -      |
| 8478SD                | 10 fl. oz. Quik-Shot      | 12       | 36        | 648    |
| 8480SD                | 8 fl. oz. dual cartridge  | -        | 12        | 624    |
| 8486SD                | 12 fl. oz. dual cartridge | -        | 12        | 540    |
| 8490SD                | 28 fl. oz. dual cartridge | -        | 8         | 240    |

One AC100+Gold mixing nozzle is packaged with each cartridge.  
AC100+Gold mixing nozzles must be used to ensure complete and proper mixing of the adhesive.



| CARTRIDGE SYSTEM MIXING NOZZLES |                                                                    |          |           |  |
|---------------------------------|--------------------------------------------------------------------|----------|-----------|--|
| CAT. NO.                        | DESCRIPTION                                                        | STD. BOX | STD. CTN. |  |
| 08293                           | Extra mixing nozzle for AC100+Gold (5 oz., 8 oz., 10 oz. & 12 oz.) | 2        | 24        |  |
| 08294                           | Extra mixing nozzle (with 8" extension) for AC100+Gold 28 oz.      | 2        | 24        |  |
| 08281                           | Mixing nozzle extension, 8"                                        | 2        | 24        |  |



8437                      8484                      8485



8494                      8495

| DISPENSING TOOLS FOR INJECTION ADHESIVE |                                                                |          |           |  |
|-----------------------------------------|----------------------------------------------------------------|----------|-----------|--|
| CAT. NO.                                | DESCRIPTION                                                    | STD. BOX | STD. CTN. |  |
| 08437                                   | Manual caulking gun for Push-Pak and Quik-Shot                 | 1        | 12        |  |
| 08479                                   | High performance caulking gun for Push-Pak and Quik-Shot       | 1        | 12        |  |
| 08484                                   | AC100+Gold 8 oz. standard all metal manual tool                | 1        | 6         |  |
| 08485                                   | AC100+Gold 8 oz., 10 oz. & 12 oz. high performance manual tool | 1        | 20        |  |
| 08494                                   | AC100+Gold 28 oz. standard all metal manual tool               | 1        | -         |  |
| 08495                                   | AC100+Gold 28 oz. high performance manual tool                 | 1        | -         |  |



| PNEUMATIC INJECTION TOOL DELIVERY SYSTEM |                                        |          |           |
|------------------------------------------|----------------------------------------|----------|-----------|
| CAT. NO.                                 | DESCRIPTION                            | STD. BOX | STD. CTN. |
| 08496                                    | 28 oz. High Performance Pneumatic Tool | 1        | 1         |



| BATTERY INJECTION DISPENSING TOOL |                                      |          |           |
|-----------------------------------|--------------------------------------|----------|-----------|
| CAT. NO.                          | DESCRIPTION                          | STD. BOX | STD. CTN. |
| 08444*                            | 28 oz. High Performance Battery Tool | 1        | 1         |

\* Dispenses 12 cartridges at 70°F \* Dispenses 6 cartridges at 30°F



8284                      8285                      8286  
8287                      8288                      8289  
8290                      8291  
8283                      8296                      8482  
8292                      8465                      8466



8280                      52073

| HOLE CLEANING TOOLS & ACCESSORIES |                                                                                                                                                                                                                               |               |           |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|
| CAT. NO.                          | DESCRIPTION                                                                                                                                                                                                                   | LENGTH INCHES | STD. PKG. |
| 08284                             | Wire brush for 7/16" ANSI hole (3/8" rod or #3 rebar)                                                                                                                                                                         | 6-3/4"        | 1         |
| 08285                             | Wire brush for 9/16" ANSI hole (1/2" rod or #4 rebar)                                                                                                                                                                         | 6-3/4"        | 1         |
| 08286                             | Wire brush for 11/16" ANSI hole (5/8" rod or #5 rebar)                                                                                                                                                                        | 7-7/8"        | 1         |
| 08278                             | Wire brush for 3/4" ANSI hole (5/8" rod or #5 rebar)                                                                                                                                                                          | 7-7/8"        | 1         |
| 08287                             | Wire brush for 7/8" ANSI hole (3/4" rod or #6 rebar)                                                                                                                                                                          | 7-7/8"        | 1         |
| 08288                             | Wire brush for 1" ANSI hole (7/8" rod or #7 rebar)                                                                                                                                                                            | 11-7/8"       | 1         |
| 08289                             | Wire brush for 1-1/8" ANSI hole (1" rod or #8 rebar)                                                                                                                                                                          | 11-7/8"       | 1         |
| 08290                             | Wire brush for 1-3/8" ANSI hole (1-1/4" rod or #9 rebar)                                                                                                                                                                      | 11-7/8"       | 1         |
| 08291                             | Wire brush for 1-1/2" ANSI hole ( #10 rebar)                                                                                                                                                                                  | 11-7/8"       | 1         |
| 08283                             | SDS-plus adapter for steel brushes                                                                                                                                                                                            |               | 1         |
| 08296                             | Standard drill adapter for steel brushes (e.g. Jacobs Chuck)                                                                                                                                                                  |               | 1         |
| 08282                             | Steel brush extension, 12"                                                                                                                                                                                                    |               | 1         |
| 08280                             | Hand pump/dust blower (25 fl. oz. cylinder volume)                                                                                                                                                                            |               | 1         |
| 08292                             | Air compressor nozzle with extension                                                                                                                                                                                          |               | 1         |
| 08465                             | Adjustable torque wrench with 1/2 square drive (10 to 150 ft.-lbs.)                                                                                                                                                           |               | 1         |
| 08466                             | Adjustable torque wrench with 1/2 square drive (25 to 250 ft.-lbs.)                                                                                                                                                           |               | 1         |
| 52073                             | Adhesive cleaning kit, includes 4 wire brushes (08284, 08285, 08286, 08287), steel brush extension (08282), SDS-Pus adapter (08283), standard drill adapter (08296), hand pump/dust blower (08280), gloves and safety glasses |               | 1         |



Mixing nozzle included with each cartridge

**CODE LISTED**  
ICC-ES ESR-2583

**CITY OF LOS ANGELES**  
LARR-25849 (Concrete)

**PE1000+®**  
Adhesive Anchoring System

The PE1000+ is a two-component, high strength epoxy adhesive anchoring system. The system includes injection adhesive in plastic cartridges, mixing nozzles, dispensing tools and hole cleaning equipment. The PE1000+ is designed for bonding threaded rod and reinforcing bar hardware into drilled holes in solid concrete base materials.

| PE1000+ CARTRIDGES |                           |          |
|--------------------|---------------------------|----------|
| CAT. NO.           | DESCRIPTION               | STD. BOX |
| 0500SD             | 13 fl. oz. dual cartridge | 12       |
| 0502SD             | 20 fl. oz. dual cartridge | 12       |

One PE1000+ mixing nozzle is packaged with each cartridge.  
PE1000+ mixing nozzles must be used to ensure complete and proper mixing of the adhesive.



| CARTRIDGE SYSTEM MIXING NOZZLES |                                                        |          |           |
|---------------------------------|--------------------------------------------------------|----------|-----------|
| CAT. NO.                        | DESCRIPTION                                            | STD. BOX | STD. CTN. |
| 08294                           | Extra mixing nozzle (with an 8" extension) for PE1000+ | 2        | 24        |
| 08281                           | Mixing nozzle extension, 8"                            | 2        | 24        |



| PE1000+ DISPENSING TOOLS |                                                    |          |           |
|--------------------------|----------------------------------------------------|----------|-----------|
| CAT. NO.                 | DESCRIPTION                                        | STD. BOX | STD. CTN. |
| 8279SD                   | 13 oz. + 20 oz. PE1000+ battery tool               | 1        | 12        |
| 08298                    | 13 oz. + 20 oz. PE1000+ heavy duty dispensing tool | 1        | 5         |
| 8497SD                   | 13 oz. + 20 oz. PE1000+ pneumatic dispensing tool  | 1        | -         |
| 08277                    | Battery for 8279SD                                 | 1        | -         |



| HOLE CLEANING TOOLS & ACCESSORIES |                                                                                                                                                                                                                                |               |           |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|
| CAT. NO.                          | DESCRIPTION                                                                                                                                                                                                                    | LENGTH INCHES | STD. PKG. |
| 08284                             | Wire brush for 7/16" ANSI hole (3/8" rod or #3 rebar)                                                                                                                                                                          | 6-3/4"        | 1         |
| 08285                             | Wire brush for 9/16" ANSI hole (1/2" rod or #4 rebar)                                                                                                                                                                          | 6-3/4"        | 1         |
| 08286                             | Wire brush for 11/16" ANSI hole (5/8" rod or #5 rebar)                                                                                                                                                                         | 7-7/8"        | 1         |
| 08278                             | Wire brush for 3/4" ANSI hole (5/8" rod or #5 rebar)                                                                                                                                                                           | 7-7/8"        | 1         |
| 08287                             | Wire brush for 7/8" ANSI hole (3/4" rod or #6 rebar)                                                                                                                                                                           | 7-7/8"        | 1         |
| 08288                             | Wire brush for 1" ANSI hole (7/8" rod or #7 rebar)                                                                                                                                                                             | 11-7/8"       | 1         |
| 08289                             | Wire brush for 1-1/8" ANSI hole (1" rod or #8 rebar)                                                                                                                                                                           | 11-7/8"       | 1         |
| 08290                             | Wire brush for 1-3/8" ANSI hole (1-1/4" rod or #9 rebar)                                                                                                                                                                       | 11-7/8"       | 1         |
| 08291                             | Wire brush for 1-1/2" ANSI hole (#10 rebar)                                                                                                                                                                                    | 11-7/8"       | 1         |
| 08283                             | SDS-plus adapter for steel brushes                                                                                                                                                                                             |               | 1         |
| 08296                             | Standard drill adapter for steel brushes (e.g. Jacobs Chuck)                                                                                                                                                                   |               | 1         |
| 08282                             | Steel brush extension, 12"                                                                                                                                                                                                     |               | 1         |
| 08280                             | Hand pump/dust blower (25 fl. oz. cylinder volume)                                                                                                                                                                             |               | 1         |
| 08292                             | Air compressor nozzle with extension                                                                                                                                                                                           |               | 1         |
| 08465                             | Adjustable torque wrench with 1/2 square drive (10 to 150 ft.-lbs.)                                                                                                                                                            |               | 1         |
| 08466                             | Adjustable torque wrench with 1/2 square drive (25 to 250 ft.-lbs.)                                                                                                                                                            |               | 1         |
| 52073                             | Adhesive cleaning kit, includes 4 wire brushes (08284, 08285, 08286, 08287), steel brush extension (08282), SDS-Plus adapter (08283), standard drill adapter (08296), hand pump/dust blower (08280), gloves and safety glasses |               | 1         |



Mixing nozzle included with each cartridge

**CODE LISTED**  
ICC-ES ESR-3066  
UNCRACKED CONCRETE

**CODE LISTED**  
ICC-ES ESR-3149  
UNREINFORCED MASONRY

**T308+™**  
Adhesive Anchoring System

T308+ is a two-component epoxy adhesive anchoring system. The system includes injection adhesive in plastic cartridges, mixing nozzles, dispensing tools and hole cleaning equipment. T308+ is designed for bonding threaded rod and reinforcing bar into drilled holes in concrete and masonry base materials.

| T308+ CARTRIDGES |                                                             |          |           |        |
|------------------|-------------------------------------------------------------|----------|-----------|--------|
| CAT. NO.         | DESCRIPTION                                                 | STD. BOX | STD. CTN. | PALLET |
| 8558SD           | 8.5 fl. oz. Quik-Shot cartridge (15.3 in <sup>3</sup> )     | 12       | 24        | 432    |
| 8503SD           | 14 fl. oz. Side-by-Side cartridge (25.0 in <sup>3</sup> )   | 12       | -         | 960    |
| 8523SD           | 21.5 fl. oz. Side-by-Side cartridge (38.5 in <sup>3</sup> ) | 12       | -         | 432    |
| 8536SD           | 51 fl. oz. Side-by-Side cartridge (92.0 in <sup>3</sup> )   | 8        | -         | 216    |

One T308+ mixing nozzle is packaged with each cartridge. T308+ mixing nozzles must be used to ensure complete and proper mixing of the adhesive.



| CAT. NO. | DESCRIPTION                                                                                                                                                                                                                    | STD. PKG. |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 08288    | Wire brush for 1" ANSI hole (7/8" rod)                                                                                                                                                                                         | 1         |
| 08289    | Wire brush for 1-1/8" ANSI hole (1" rod or # 8 rebar)                                                                                                                                                                          | 1         |
| 08290    | Wire brush for 1-3/8" ANSI hole (1-1/4" rod)                                                                                                                                                                                   | 1         |
| 08283    | SDS-Plus adapter for steel brushes                                                                                                                                                                                             | 1         |
| 08296    | Standard drill adapter for steel brushes (e.g. Jacobs Chuck)                                                                                                                                                                   | 1         |
| 08282    | Steel brush extension, 12"                                                                                                                                                                                                     | 1         |
| 08292    | Air compressor nozzle with extension                                                                                                                                                                                           | 1         |
| 08465    | Adjustable torque wrench with 1/2" square drive (10 to 150 ft.-lbs.)                                                                                                                                                           | 1         |
| 08466    | Adjustable torque wrench with 1/2" square drive (25 to 250 ft.-lbs.)                                                                                                                                                           | 1         |
| 08280    | Hand pump/dust blower (25 fl. oz. cylinder volume)                                                                                                                                                                             | 1         |
| 52073    | Adhesive cleaning kit, includes 4 wire brushes (08284, 08285, 08286, 08287), steel brush extension (08282), SDS-Plus adapter (08283), standard drill adapter (08296), hand pump/dust blower (08280), gloves and safety glasses |           |



**New!**

**Pure110+™**  
Adhesive Anchoring System

Pure110+ is a two-component epoxy adhesive anchoring system. The system includes injection adhesive in plastic cartridges, mixing nozzles, dispensing tools and hole cleaning equipment. Pure110+ is designed for bonding threaded rod and reinforcing bar hardware into drilled holes in solid concrete base materials.

| PURE50+ CARTRIDGES |                               |          |        |
|--------------------|-------------------------------|----------|--------|
| CAT. NO.           | DESCRIPTION                   | STD. BOX | PALLET |
| 08310SD            | 9 fl. oz. Quik-Shot cartridge | 12       | 432    |
| 08321SD            | 21 fl. oz. dual cartridge     | 12       | 540    |

One Pure110+ mixing nozzle is packaged with each cartridge. Pure110+ mixing nozzles must be used to ensure complete and proper mixing of the adhesive.



| CARTRIDGE SYSTEM MIXING NOZZLES |                                                                            |           |           |
|---------------------------------|----------------------------------------------------------------------------|-----------|-----------|
| CAT. NO.                        | DESCRIPTION                                                                | STD. PACK | STD. CTN. |
| 08294                           | Extra mixing nozzle (w/8" extension) for Pure110+ Quik-Shot                | 2         | 24        |
| 08281                           | Mixing nozzle extension, 8" minimum                                        | 2         | 24        |
| 08609                           | Extra high flow mixing nozzle (w/8" extension) for Pure110+ dual cartridge | 2         | 24        |



08409                      08421                      08442



08413                      08437                      08479

| DISPENSING TOOLS FOR INJECTION ADHESIVE |                                             |          |           |
|-----------------------------------------|---------------------------------------------|----------|-----------|
| CAT. NO.                                | DESCRIPTION                                 | STD. BOX | STD. CTN. |
| 08409                                   | 21 fl. oz. Standard all-metal manual tool   | 1        | 10        |
| 08421                                   | 21 fl. oz. High performance manual tool     | 1        | 10        |
| 08442                                   | 21 fl. oz. Battery powered tool (cordless)  | 1        | -         |
| 08413                                   | 21 fl. oz. Pneumatic tool                   | 1        | -         |
| 08437                                   | Manual caulking gun for Quik-Shot           | 1        | 12        |
| 08479                                   | High performance caulking gun for Quik-Shot | 1        | 12        |

**HOLE CLEANING TOOLS AND ACCESSORIES**

| CAT. NO. | DESCRIPTION                                                                                                                                                                                                                    | STD. PKG. |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 08284    | Wire brush for 7/16" ANSI hole (3/8" rod or #3 rebar)                                                                                                                                                                          | 1         |
| 08285    | Wire brush for 9/16" ANSI hole (1/2" rod or #4 rebar)                                                                                                                                                                          | 1         |
| 08286    | Wire brush for 11/16" ANSI hole (5/8" rod or #5 rebar)                                                                                                                                                                         | 1         |
| 08278    | Wire brush for 3/4" ANSI hole (5/8" rod or #5 rebar)                                                                                                                                                                           | 1         |
| 08287    | Wire brush for 7/8" ANSI hole (3/4" rod or #6 rebar)                                                                                                                                                                           | 1         |
| 08288    | Wire brush for 1" ANSI hole (7/8" rod)                                                                                                                                                                                         | 1         |
| 08289    | Wire brush for 1-1/8" ANSI hole (1" rod or # 8 rebar)                                                                                                                                                                          | 1         |
| 08290    | Wire brush for 1-3/8" ANSI hole (1-1/4" rod)                                                                                                                                                                                   | 1         |
| 08283    | SDS-Plus adapter for steel brushes                                                                                                                                                                                             | 1         |
| 08296    | Standard drill adapter for steel brushes (e.g. Jacobs Chuck)                                                                                                                                                                   | 1         |
| 08282    | Steel brush extension, 12"                                                                                                                                                                                                     | 1         |
| 08292    | Air compressor nozzle with extension                                                                                                                                                                                           | 1         |
| 08465    | Adjustable torque wrench with 1/2" square drive (10 to 150 ft.-lbs.)                                                                                                                                                           | 1         |
| 08466    | Adjustable torque wrench with 1/2" square drive (25 to 250 ft.-lbs.)                                                                                                                                                           | 1         |
| 08280    | Hand pump/dust blower (25 fl. oz. cylinder volume)                                                                                                                                                                             | 1         |
| 52073    | Adhesive cleaning kit, includes 4 wire brushes (08284, 08285, 08286, 08287), steel brush extension (08282), SDS-Plus adapter (08283), standard drill adapter (08296), hand pump/dust blower (08280), gloves and safety glasses |           |



**New!**

**AC50 Silver™**  
Adhesive Anchoring System

AC50 Silver is a two-component vinyl ester adhesive anchoring system. The system includes injection adhesive in plastic cartridges, mixing nozzles, dispensing tools and hole cleaning equipment. AC50 Silver is designed for bonding threaded rod and reinforcing bar hardware into drilled holes in solid concrete base materials.

| PURE50+ CARTRIDGES |                      |          |        |
|--------------------|----------------------|----------|--------|
| CAT. NO.           | DESCRIPTION          | STD. BOX | PALLET |
| 08497              | 28 fl. oz. cartridge | 8        | 400    |

One AC50 Silver mixing nozzle is packaged with each cartridge. AC50 Silver mixing nozzles must be used to ensure complete and proper mixing of the adhesive.



| CARTRIDGE SYSTEM MIXING NOZZLES |                                                            |           |           |  |
|---------------------------------|------------------------------------------------------------|-----------|-----------|--|
| CAT. NO.                        | DESCRIPTION                                                | STD. PACK | STD. CTN. |  |
| 08294                           | Extra mixing nozzle (with an 8" extension) for AC50 Silver | 12        | 540       |  |
| 08281                           | Mixing nozzle extension, 8" minimum                        | 8         | 216       |  |



| DISPENSING TOOLS FOR INJECTION ADHESIVE |                                            |          |           |  |
|-----------------------------------------|--------------------------------------------|----------|-----------|--|
| CAT. NO.                                | DESCRIPTION                                | STD. BOX | STD. CTN. |  |
| 08494                                   | 28 fl. oz. Standard all-metal manual tool  | 1        | 10        |  |
| 08495                                   | 28 fl. oz. High performance manual tool    | 1        | 10        |  |
| 08444                                   | 28 fl. oz. Battery powered tool (cordless) | 1        | -         |  |
| 08496                                   | 28 fl. oz. Pneumatic tool                  | 1        | -         |  |



8280



52073

| HOLE CLEANING TOOLS AND ACCESSORIES |                                                                                                                                                                                                                               |           |  |  |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|--|
| CAT. NO.                            | DESCRIPTION                                                                                                                                                                                                                   | STD. PKG. |  |  |
| 08284                               | Wire brush for 7/16" ANSI hole (3/8" rod or #3 rebar)                                                                                                                                                                         | 1         |  |  |
| 08285                               | Wire brush for 9/16" ANSI hole (1/2" rod or #4 rebar)                                                                                                                                                                         | 1         |  |  |
| 08286                               | Wire brush for 11/16" ANSI hole (5/8" rod or #5 rebar)                                                                                                                                                                        | 1         |  |  |
| 08278                               | Wire brush for 3/4" ANSI hole (1/2" rod or #4 rebar)                                                                                                                                                                          | 1         |  |  |
| 08287                               | Wire brush for 7/8" ANSI hole (3/4" rod or #6 rebar)                                                                                                                                                                          | 1         |  |  |
| 08288                               | Wire brush for 1" ANSI hole (7/8" rod)                                                                                                                                                                                        | 1         |  |  |
| 08289                               | Wire brush for 1-1/8" ANSI hole (1" rod or # 8 rebar)                                                                                                                                                                         | 1         |  |  |
| 08290                               | Wire brush for 1-3/8" ANSI hole (1-1/4" rod)                                                                                                                                                                                  | 1         |  |  |
| 08283                               | SDS-Plus adapter for steel brushes                                                                                                                                                                                            | 1         |  |  |
| 08296                               | Standard drill adapter for steel brushes (e.g. Jacobs Chuck)                                                                                                                                                                  | 1         |  |  |
| 08282                               | Steel brush extension, 12"                                                                                                                                                                                                    | 1         |  |  |
| 08292                               | Air compressor nozzle with extension                                                                                                                                                                                          | 1         |  |  |
| 08465                               | Adjustable torque wrench with 1/2" square drive (10 to 150 ft.-lbs.)                                                                                                                                                          | 1         |  |  |
| 08466                               | Adjustable torque wrench with 1/2" square drive (25 to 250 ft.-lbs.)                                                                                                                                                          | 1         |  |  |
| 08280                               | Hand pump/dust blower (25 fl. oz. cylinder volume)                                                                                                                                                                            |           |  |  |
| 52073                               | Adhesive cleaning kit, includes 4 wire brushes (08284, 08285, 08286, 08287), steel brush extension (08282), SDS-Pus adapter (08283), standard drill adapter (08296), hand pump/dust blower (08280), gloves and safety glasses |           |  |  |



**Chem-Stud®**  
Spin-In Type Capsule Adhesive

TESTED TO  
**ICC-ES AC508**

The Chem-Stud Anchor System consists of self contained two-part glass capsules and matching chisel pointed anchor rods which are installed using a rotary hammer drill and rod adapters. The Chem-Stud adhesive is an ester based resin material packaged in a single use glass capsules designed for installation of 3/8" through 1-1/2" threaded rods in solid concrete and masonry materials. It can also be used with chisel pointed reinforcing bars.

| CHEM-STUD CAPSULES |          |            |         |          |           |  |
|--------------------|----------|------------|---------|----------|-----------|--|
| CAT. NO.           | ROD SIZE | DRILL DIA. | LENGTH  | STD. BOX | STD. CTN. |  |
| 6502               | 3/8"     | 7/16"      | 3-1/2"  | 10       | 500       |  |
| 6503               | 1/2"     | 9/16"      | 4-1/4"  | 10       | 200       |  |
| 6504               | 5/8"     | 11/16"     | 5"      | 10       | 200       |  |
| 6505               | 3/4"     | 7/8"       | 6-5/8"  | 5        | 50        |  |
| 6506               | 7/8"     | 1"         | 7"      | 5        | 50        |  |
| 6507               | 1"       | 1-1/8"     | 8-1/4"  | 5        | 50        |  |
| 6508               | 1-1/4"   | 1-1/2"     | 10-1/4" | 5        | 25        |  |



Carbon steel rods are zinc plated according to ASTM B 633. A307 Standard Carbon Steel, Zinc Plated (ASTM B 633)

| CHEM-STUD CHISEL-POINTED ANCHOR RODS |               |            |            |          |           |  |
|--------------------------------------|---------------|------------|------------|----------|-----------|--|
| CAT. NO.                             | SIZE          | DRILL DIA. | MIN. DEPTH | STD. BOX | STD. CTN. |  |
| 6513                                 | 1/2" x 6-1/2" | 9/16"      | 4-1/4"     | 10       | 50        |  |
| 6514                                 | 5/8" x 7-1/2" | 11/16"     | 5"         | 10       | 40        |  |
| 6515                                 | 3/4" x 9-5/8" | 7/8"       | 6-5/8"     | 10       | 40        |  |
| 6517                                 | 1" x 12"      | 1-1/8"     | 8-1/4"     | 10       | 10        |  |
| 6518*                                | 1-1/4" x 15"  | 1-1/2"     | 10-1/4"    | 5        | 5         |  |

\* Discontinued item once current stock exhausted.

**Chem-Stud® Installation Tools**

Chem-Stud installation tools consist of a drive adapter which is designed to fit the rotary hammer drill used and a coupler to hold either threaded rods or reinforcing bars. The tools for threaded rod and reinforcing bars are different and can not be interchanged.

**Threaded Rod Installation Tools**



| COUPLERS FOR THREADED ROD |        |          |           |  |
|---------------------------|--------|----------|-----------|--|
| CAT. NO.                  | SIZE   | STD. BOX | STD. CTN. |  |
| 6562                      | 3/8"   | 1        | 10        |  |
| 6563                      | 1/2"   | 1        | 10        |  |
| 6564                      | 5/8"   | 1        | 10        |  |
| 6565                      | 3/4"   | 1        | 5         |  |
| 6566                      | 7/8"   | 1        | 5         |  |
| 6567                      | 1"     | 1        | 5         |  |
| 6568                      | 1-1/4" | 1        | 5         |  |



| DRIVERS FOR THREADED ROD COUPLERS - HEX |          |                   |          |           |
|-----------------------------------------|----------|-------------------|----------|-----------|
| CAT. NO.                                | HEX SIZE | FITS COUPLER SIZE | STD. BOX | STD. CTN. |
| 6570                                    | 1/4"     | 3/8" to 5/8"      | 1        | 10        |
| 6572                                    | 3/8"     | 3/4" to 1-1/4"    | 1        | 10        |



**DRIVERS FOR THREADED ROD COUPLERS - SDS-PLUS**

| CAT. NO. | HEX SIZE | FITS COUPLER SIZE | STD. BOX | STD. CTN. |
|----------|----------|-------------------|----------|-----------|
| 6574     | 1/4"     | 3/8" to 5/8"      | 1        | 10        |
| 6576     | 3/8"     | 3/4" to 1-1/4"    | 1        | 10        |



**DRIVERS FOR THREADED ROD COUPLERS - SPLINE**

| CAT. NO. | HEX SIZE | FITS COUPLER SIZE | STD. BOX | STD. CTN. |
|----------|----------|-------------------|----------|-----------|
| 6580     | 1/4"     | 3/8" to 5/8"      | 1        | 10        |
| 6582     | 3/8"     | 3/4" to 1-1/4"    | 1        | 10        |



**DRIVERS FOR THREADED ROD COUPLERS - SDS-MAX**

| CAT. NO. | HEX SIZE | FITS COUPLER SIZE | STD. BOX | STD. CTN. |
|----------|----------|-------------------|----------|-----------|
| 6559     | 1/4"     | 3/8" to 5/8"      | 1        | 10        |
| 6561     | 3/8"     | 3/4" to 1-1/4"    | 1        | 10        |

**Reinforcing Bar Installation Tools**



**CHEM-STUD REBAR COUPLERS AND DRIVERS**

| CAT. NO. | SIZE                     | STD. BOX | STD. CTN. |
|----------|--------------------------|----------|-----------|
| 6533     | #3 Coupler               | 1        | 10        |
| 6534     | #4 Coupler               | 1        | 5         |
| 6536     | #6 Coupler               | 1        | 10        |
| 6537     | #7 Coupler               | 1        | 10        |
| 6538     | #8 Coupler               | 1        | 10        |
| 6539     | #9 Coupler               | 1        | 10        |
| 6540     | #10 Coupler              | 1        | 1         |
| 6590     | Spline Driver Extension  | 1        | 1         |
| 6596     | SDS-Max Driver Extension | 1        | 1         |



**INTERNALLY THREADED INSERT TOOLS\***

| CAT. NO. | SIZE | STD. BOX | STD. CTN. |
|----------|------|----------|-----------|
| 6862     | 3/8" | 1        | 1         |
| 6863     | 1/2" | 1        | 1         |
| 6864     | 5/8" | 1        | 1         |
| 6865     | 3/4" | 1        | 1         |

\*Use with drivers for threaded rod.



**Hammer-Capsule®**

Drive-In Type Capsule Adhesive

TESTED TO  
**ICC-ES AC58**

The Hammer-Capsule System consists of a self contained, single use, two-part glass capsule into which threaded anchor rod or reinforcing bars can be directly driven without the need for a chisel point or spinning action. It is designed for use in the installation of 3/8" through 1" diameter threaded rod in solid concrete and masonry materials. It can also be used to install reinforcing bars.

**HAMMER-CAPSULE SELECTION GUIDE**

| CAT. NO. | SIZE | DRILL DIA. | CAPSULE LENGTH | STD. BOX | STD. CTN. |
|----------|------|------------|----------------|----------|-----------|
| 6702     | 3/8" | 7/16"      | 3-1/2"         | 10       | 500       |
| 6703     | 1/2" | 9/16"      | 4-1/4"         | 10       | 200       |
| 6704     | 5/8" | 11/16"     | 5"             | 10       | 100       |
| 6705     | 3/4" | 7/8"       | 6-5/8"         | 5        | 50        |
| 6706     | 7/8" | 1"         | 7"             | 5        | 50        |
| 6707     | 1"   | 1-1/8"     | 8-1/4"         | 5        | 50        |

**Adhesive Installation Accessories**

Adhesive installation accessories are designed to provide a dispenser or mixing nozzle extension when required and to aid in the preparation of the anchor hole.



**ACCESSORIES**

| CAT. NO. | DESCRIPTION                  | STD. BAG |
|----------|------------------------------|----------|
| 8280     | Blow Out Pump                | 1        |
| 7931     | 1/2" x 8-1/2" nylon brush    | 1        |
| 7932     | 3/4" x 8-1/2" nylon brush    | 1        |
| 7933     | 1" x 12" nylon brush         | 1        |
| 7934     | 1-1/4" x 13" nylon brush     | 1        |
| 7935     | 1-1/2" x 13-1/2" nylon brush | 1        |

Anchor Seal Plugs help retain the adhesive in the anchor hole and hold the anchor rod centered in the hole until the adhesive sets. The plugs are described by the anchor rod diameter they are used with.



**ANCHOR SEAL PLUGS**

| CAT. NO. | DESCRIPTION           | PLUG DEPTH | HOLE SIZE | STD. BAG |
|----------|-----------------------|------------|-----------|----------|
| 7936     | 3/8" Anchor Seal Plug | 3/8"       | 7/16"     | 25       |
| 7937     | 1/2" Anchor Seal Plug | 1/2"       | 9/16"     | 25       |

For additional sizes call for availability.



**ADHESIVE PISTONS**

| CAT. NO. | DESCRIPTION | ANSI DRILL DIA. | ROD SIZE    | STD. BAG | STD. CTN. |
|----------|-------------|-----------------|-------------|----------|-----------|
| 08300    | 7/8" Plug   | 7/8"            | #6 - 3/4"   | 10       | 100       |
| 08301    | 1" Plug     | 1"              | #7 - 7/8"   | 10       | 100       |
| 08303    | 1-1/8" Plug | 1-1/8" Plug     | #8 - 1"     | 10       | 100       |
| 08305    | 1-3/8" Plug | 1-3/8" Plug     | #9 - 1-1/4" | 10       | 100       |
| 08309    | 1-1/2" Plug | 1-1/2" Plug     | #10         | 10       | 100       |



Screen tubes are made from a 300 series stainless steel. The nominal diameter of the screen listed indicates the matching rod diameter.

**STAINLESS STEEL SCREEN TUBES**

| CAT. NO. | DESCRIPTION                 | DRILL DIA. | STD. CTN. |
|----------|-----------------------------|------------|-----------|
| 7862     | 1/4" x 6" Screen Tube †     | 3/8"       | 25        |
| 7864     | 1/4" x 8" Screen Tube †     | 3/8"       | 25        |
| 7866*    | 1/4" x 10" Screen Tube †    | 3/8"       | 25        |
| 7961     | 3/8" x 3-1/2" Screen Tube † | 1/2"       | 25        |
| 7962     | 3/8" x 6" Screen Tube †     | 1/2"       | 25        |
| 7963     | 3/8" x 8" Screen Tube †     | 1/2"       | 25        |
| 7964     | 3/8" x 10" Screen Tube †    | 1/2"       | 25        |
| 7959     | 3/8" x 12" Screen Tube †    | 1/2"       | 25        |
| 7965     | 1/2" x 3-1/2" Screen Tube   | 5/8"       | 25        |

ADHESIVE

| CAT. NO. | DESCRIPTION                        | DRILL DIA. | STD. CTN. |
|----------|------------------------------------|------------|-----------|
| 7966     | 1/2" x 6" Screen Tube              | 5/8"       | 25        |
| 7967     | 1/2" x 8" Screen Tube †            | 5/8"       | 25        |
| 7968     | 1/2" x 10" Screen Tube †           | 5/8"       | 25        |
| 7969     | 5/8" x 4-1/2" Screen Tube          | 3/4"       | 20        |
| 7970     | 5/8" x 6" Screen Tube              | 3/4"       | 20        |
| 7971     | 5/8" x 8" Screen Tube †            | 3/4"       | 20        |
| 7972     | 5/8" x 10" Screen Tube †           | 3/4"       | 20        |
| 7973     | 3/4" x 6" Screen Tube              | 7/8"       | 10        |
| 7977     | 3/4" x 8" Screen Tube              | 7/8"       | 10        |
| 7974     | 3/4" x 10" Screen Tube             | 7/8"       | 107       |
| 7975     | 3/4" x 13" Screen Tube             | 7/8"       | 10        |
| 7865     | 15/16" x 8" Screen Tube            | 1"         | 10        |
| 7867     | 15/16" x 13" Screen Tube           | 1"         | 10        |
| 7869     | 15/16" x 17" Screen Tube †         | 1"         | 10        |
| 7955     | Adhesive Shear Tube (steel sleeve) | -          | 10        |

\* Discontinued item once current stock exhausted. † Includes extension tubing



The nominal diameter of the screen listed indicate the matching rod diameter. Note: hole size required for plastic screen tubes are different than that for the stainless steel tubes.

| CAT. NO. | DESCRIPTION               | DRILL DIA. | STD. BOX |
|----------|---------------------------|------------|----------|
| 8470     | 1/4" x 1-3/4" Screen Tube | 1/2"       | 25       |
| 8473     | 3/8" x 2-3/4" Screen Tube | 9/16"      | 25       |
| 8310     | 3/8" x 3-1/2" Screen Tube | 9/16"      | 25       |
| 8311     | 3/8" x 6" Screen Tube     | 9/16"      | 25       |
| 8313     | 3/8" x 8" Screen Tube     | 9/16"      | 25       |
| 8315     | 1/2" x 3-1/2" Screen Tube | 3/4"       | 25       |
| 8317     | 1/2" x 6" Screen Tube     | 3/4"       | 25       |
| 8321     | 5/8" x 6" Screen Tube     | 7/8"       | 25       |
| 8323     | 3/4" x 6" Screen Tube     | 1"         | 10       |



8280



52073

| CAT. NO. | DESCRIPTION                                                  | LENGTH INCHES | STD. PKG. |
|----------|--------------------------------------------------------------|---------------|-----------|
| 08284    | Wire brush for 7/16" ANSI hole (3/8" rod or #3 rebar)        | 6-3/4"        | 1         |
| 08285    | Wire brush for 9/16" ANSI hole (1/2" rod or #4 rebar)        | 6-3/4"        | 1         |
| 08286    | Wire brush for 11/16" ANSI hole (5/8" rod or #5 rebar)       | 7-7/8"        | 1         |
| 08278    | Wire brush for 3/4" ANSI hole (5/8" rod or #5 rebar)         | 7-7/8"        | 1         |
| 08287    | Wire brush for 7/8" ANSI hole (3/4" rod or #6 rebar)         | 7-7/8"        | 1         |
| 08288    | Wire brush for 1" ANSI hole (7/8" rod or #7 rebar)           | 11-7/8"       | 1         |
| 08289    | Wire brush for 1-1/8" ANSI hole (1" rod or #8 rebar)         | 11-7/8"       | 1         |
| 08290    | Wire brush for 1-3/8" ANSI hole (1-1/4" rod or #9 rebar)     | 11-7/8"       | 1         |
| 08291    | Wire brush for 1-1/2" ANSI hole ( #10 rebar)                 | 11-7/8"       | 1         |
| 08283    | SDS-plus adapter for steel brushes                           |               | 1         |
| 08296    | Standard drill adapter for steel brushes (e.g. Jacobs Chuck) |               | 1         |

| CAT. NO. | DESCRIPTION                                                                                                                                                                                                                   | LENGTH INCHES | STD. PKG. |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|
| 08282    | Steel brush extension, 12"                                                                                                                                                                                                    |               | 1         |
| 08280    | Hand pump/dust blower (25 fl. oz. cylinder volume)                                                                                                                                                                            |               | 1         |
| 08292    | Air compressor nozzle with extension                                                                                                                                                                                          |               | 1         |
| 08465    | Adjustable torque wrench with 1/2 square drive (10 to 150 ft.-lbs.)                                                                                                                                                           |               | 1         |
| 08466    | Adjustable torque wrench with 1/2 square drive (25 to 250 ft.-lbs.)                                                                                                                                                           |               | 1         |
| 52073    | Adhesive cleaning kit, includes 4 wire brushes (08284, 08285, 08286, 08287), steel brush extension (08282), SDS-Pus adapter (08283), standard drill adapter (08296), hand pump/dust blower (08280), gloves and safety glasses |               | 1         |



Straight cut rod is provided in A307 Threaded Anchor rod, zinc plated (ASTM B 633, clear chromate); includes nuts & washers.

| CAT. NO. | DESCRIPTION              | STD. CTN. |
|----------|--------------------------|-----------|
| 7980     | 1/4" x 3" Anchor Rod     | 25        |
| 7985     | 1/2" x 5-1/2" Anchor Rod | 25        |
| 7986     | 1/2" x 8" Anchor Rod     | 25        |
| 7989     | 5/8" x 6-1/2" Anchor Rod | 20        |
| 7990     | 5/8" x 8" Anchor Rod     | 20        |
| 7993     | 3/4" x 9" Anchor Rod     | 10        |
| 7994     | 3/4" x 12" Anchor Rod    | 10        |

Rod is pre-bent at a 22-1/2 degree angle and includes nuts and washers.

| CAT. NO. | DESCRIPTION                 | STD. CTN. |
|----------|-----------------------------|-----------|
| 7957*    | 3/4" x 21" 22-1/2° Bent Rod | 10        |

\* Discontinued item once current stock exhausted.



### PowerFoam™

Expanding Polyurethane Foam

BASE MATERIAL  
Concrete, Masonry, Wood, Metal

SIZE RANGE  
12 oz. & 29 oz.

MATERIAL  
Polyurethane

PowerFoam is a one-part polyurethane expanding foam that sets and cures into its final form by reacting to moisture and humidity present in the air. PowerFoam's exceptional ability to bond allows it to be applied to various building elements including the surfaces of concrete, brick, block, wood, steel, aluminum and other miscellaneous metals. As it is being dispensed, PowerFoam has a neutral odor. Cured foam is standard yellow.

| CAT. NO. | DESCRIPTION      | STD. BOX | STD. CTN. | STD. PALLET |
|----------|------------------|----------|-----------|-------------|
| 08130N   | PowerFoam 12 oz. | 12       | 12        | 1152        |
| 08132N   | PowerFoam 29 oz. | 12       | 12        | 612         |



**CODE LISTED**  
ICC-ES ESR-3263

## TriggerFoam™ Pro

Expanding Polyurethane Foam

BASE MATERIAL

Concrete, Masonry, Wood, Metal

SIZE RANGE

29 oz.

MATERIAL

Polyurethane



TriggerFoam Pro formulas are a professional, gun applied, normal expansion polyurethane foam sealant with an extended temperature range which allows for use at temperatures as low as 23° F (-5°C). It is designed to seal gaps, insulate, and deaden sound. Recommended for use in heating and air conditioning, electrical and plumbing applications.

| TRIGGERFOAM PRO |                                       |           |
|-----------------|---------------------------------------|-----------|
| CAT. NO.        | DESCRIPTION                           | STD. CTN. |
| 08136N          | TriggerFoam Pro Standard Formula      | 12        |
| 08133P          | TriggerFoam Pro Fire Block Formula    | 12        |
| 08134P          | TriggerFoam Pro Window & Door Formula | 12        |
| 08135P          | TriggerFoam Pro All Season Formula    | 12        |



08128



08139



08147

| TRIGGERFOAM TOOLS & ACCESSORIES |                                                 |          |           |
|---------------------------------|-------------------------------------------------|----------|-----------|
| CAT. NO.                        | DESCRIPTION                                     | STD. BOX | STD. CTN. |
| 08126                           | TriggerFoam Pro 20" dispensing tool (not shown) | 1        | 10        |
| 08128                           | TriggerFoam Pro deluxe metal gun                | 1        | 10        |
| 08139                           | TriggerFoam Pro plastic gun                     | 1        | 10        |
| 08141*                          | TriggerFoam Pro gun replacement brass tip       | 1        | 1         |
| 08147                           | TriggerFoam Pro Cleaner 17 fl. oz.              | 6        | -         |

\* Discontinued item once current stock exhausted.



## PowerStick™

Adhesive Sealant

BASE MATERIAL

Concrete, Masonry, Metals, Wood, Plastics

SIZE RANGE

10 oz. tubes

ANCHOR MATERIAL

MS Polymer Chemistry

PowerStick is a one-component universal adhesive/sealant based on proprietary MS Polymer chemistry. PowerStick is the first professional grade product on the market that delivers high bond strength and superior flexibility.

| POWERSTICK |        |       |           |          |           |
|------------|--------|-------|-----------|----------|-----------|
| CAT. NO.   | SIZE   | COLOR | DISPENSER | STD. BOX | STD. CTN. |
| 8166N      | 10 oz. | White | Caulk Gun | 12       | 12        |
| 8168N      | 10 oz. | Gray  | Caulk Gun | 12       | 12        |



8437



8479

| CAULKING GUNS FOR POWERSTICK |                              |          |           |
|------------------------------|------------------------------|----------|-----------|
| CAT. NO.                     | DESCRIPTION                  | STD. BOX | STD. CTN. |
| 8437                         | Manual Caulking Gun          | 1        | 12        |
| 8479                         | High Performance Manual Tool | 1        | 1         |



## PowerPatch Kit™

Adhesive Sealant

BASE MATERIAL

Concrete

SIZE RANGE

5 Gallon Bucket

PowerPatch is a rapid setting, 100% solids, high strength, all temperature spall repair and patching material. PowerPatch uses a unique hybridized epoxy urethane system and an engineered aggregate blend for superior performance in all conditions, including high traffic areas.

| CAT. NO. | SIZE            | COLOR     | STD. BOX | STD. CTN. |
|----------|-----------------|-----------|----------|-----------|
| 8350     | 5 Gallon Bucket | Dark Gray | 1        | -         |

|                 | Page                 | Base Material |                      |                   |                               |                         |             |              |       |                      |         | Anchor Diameter     |             |             |             |             |             |             |              |              |              | Head Style   |              |      |       | Coating/Material |       |      |      |                     |            |                         |               |           |                              |             |               |      |   |
|-----------------|----------------------|---------------|----------------------|-------------------|-------------------------------|-------------------------|-------------|--------------|-------|----------------------|---------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|------|-------|------------------|-------|------|------|---------------------|------------|-------------------------|---------------|-----------|------------------------------|-------------|---------------|------|---|
|                 |                      | Concrete      | Lightweight Concrete | Hollow Core Plank | Grout-filled Concrete Masonry | Hollow Concrete Masonry | Solid Brick | Hollow Brick | Stone | Structural Clay/Tile | Plywood | Wallboard / Plaster | No. 4 Screw | No. 5 Screw | No. 6 Screw | No. 7 Screw | No. 8 Screw | No. 9 Screw | No. 10 Screw | No. 12 Screw | No. 14 Screw | No. 16 Screw | No. 18 Screw | 1/8" | 3/16" | 1/4"             | 5/16" | 3/8" | 1/2" | Finished (Hex) Head | Round Head | Flat Head (Countersunk) | Mushroom Head | Removable | Coated / Plated Carbon Steel | Zamac/Alloy | Nylon Plastic | Lead |   |
| Metal Anchors   | Wall Dog             | 35            | ●                    | ○                 | ○                             | ●                       | ●           | ●            | ○     |                      | ●       | ●                   |             |             |             |             |             |             |              |              |              |              |              |      |       |                  |       |      | ●    | ●                   |            |                         |               |           |                              |             |               |      |   |
|                 | Scru-Lead            | 35            | ●                    | ○                 | ○                             | ○                       | ●           | ●            | ●     | ○                    |         |                     |             | ●           | ●           | ●           |             | ●           | ●            | ●            | ●            | ●            | ●            |      |       |                  |       |      |      |                     |            |                         |               |           |                              |             |               |      | ● |
|                 | Toggle-Bolt          | 36            |                      |                   | ○                             |                         | ●           |              | ○     |                      | ○       | ●                   | ●           |             |             |             |             |             |              |              |              |              |              | ●    | ●     | ●                | ●     | ●    | ●    | ●                   | ●          | ●                       | ●             | ●         | ●                            | ●           | ●             | ●    | ● |
|                 | Polly                | 36            |                      |                   | ○                             |                         | ●           |              |       |                      | ○       | ●                   | ●           |             |             |             |             |             |              |              |              |              |              | ●    | ●     | ●                |       |      |      | ●                   | ●          |                         |               |           |                              | ●           |               |      |   |
|                 | Legs                 | 37            |                      |                   |                               |                         |             |              |       |                      |         |                     |             | ●           | ●           | ●           |             |             |              |              |              |              |              |      |       |                  |       |      |      |                     |            |                         |               |           |                              |             | ●             |      |   |
|                 | Zip-All              | 37            |                      |                   |                               |                         |             |              |       |                      |         | ●                   | ●           |             |             | ●           | ●           | ●           |              |              |              |              |              |      |       |                  |       |      |      |                     |            |                         |               |           | ●                            | ●           |               |      |   |
| Plastic Anchors | Sharkie              | 37            | ●                    | ●                 | ●                             | ●                       | ○           | ●            | ○     | ○                    | ○       | ○                   | ●           | ●           | ●           | ●           | ●           | ●           | ●            | ●            | ●            | ●            |              |      |       |                  |       |      |      |                     |            |                         |               |           |                              |             |               |      | ● |
|                 | Strap-Toggle         | 38            |                      |                   | ○                             |                         | ●           |              | ○     |                      | ○       | ○                   | ●           |             |             |             |             |             | ●            | ●            | ●            |              |              |      | ●     | ●                |       | ●    | ●    | ●                   | ●          | ●                       | ●             | ●         | ●                            | ●           | ●             | ●    | ● |
|                 | Zip-It / Zinc Zip-It | 38            |                      |                   |                               |                         |             |              |       |                      |         |                     | ●           |             | ●           | ●           | ●           |             |              |              |              |              |              |      |       |                  |       |      |      |                     |            |                         |               |           |                              | ●           | ●             | ●    | ● |
|                 | Zip-Toggle           | 38            |                      |                   |                               |                         |             |              |       |                      |         | ○                   | ●           |             |             | ●           |             |             |              |              |              |              |              |      |       |                  |       |      |      |                     |            |                         |               |           |                              |             | ●             |      |   |
|                 | Polly-Toggle         | 38            | ●                    | ○                 | ○                             | ○                       | ○           | ○            | ○     | ○                    | ○       | ○                   | ○           | ○           | ○           | ○           | ○           | ○           | ○            | ○            | ○            | ○            | ○            |      |       |                  |       |      |      |                     |            |                         |               |           |                              |             |               |      | ● |
|                 | Pop-Toggle           | 39            | ○                    | ○                 | ○                             | ○                       | ○           | ○            | ○     | ○                    | ○       | ○                   | ○           | ○           | ○           | ○           | ○           | ○           | ○            | ○            | ○            | ○            | ○            |      |       |                  |       |      |      |                     |            |                         |               |           |                              |             |               |      | ● |
|                 | Bantam Plug          | 39            | ●                    | ○                 | ○                             | ○                       | ○           | ○            | ○     | ○                    |         |                     | ●           |             | ●           | ●           | ●           | ●           | ●            | ●            | ●            | ●            | ●            | ●    |       |                  |       |      |      |                     |            |                         |               |           |                              |             |               | ●    |   |
|                 | Fluted Plastic       | 39            | ●                    | ○                 | ○                             | ○                       | ○           | ○            | ○     | ○                    |         | ○                   | ●           | ●           | ●           | ●           | ●           | ●           | ●            | ●            | ●            | ●            | ●            |      |       |                  |       |      |      |                     |            |                         |               |           |                              |             |               |      | ● |

- Suitable
- May be Suitable

## Wall-Dog®

Universal Light-Duty Anchor

**BASE MATERIAL**

Wallboard (1/2", 5/8" & double wallboard), Plywood, Concrete, Hollow or Grout Filled Block, Brick, Plaster, Wood and Masonry

**SIZE RANGE**

3/16" Diameter x 2-1/2" Length max.

**ANCHOR MATERIAL**

Case Hardened Carbon Steel



Powers Wall-Dog is the industry's first all steel one-piece screw anchor, which features high-profile threads for easy fastening into wallboard and other masonry base materials. Its deep cutting, corkscrew-like threads provide for smooth entry and a strong hold, and when removed the Wall-Dog leaves a much smaller hole than toggles or other systems. For fastening into wallboard or wood, no pre-drilling is required. Fastening into concrete, hollow or grout filled block, brick and plaster requires a pre-drilled 3/16" ANSI hole.

**Features and Benefits**

- Installs in wallboard, plywood, concrete, hollow or grout filled block, brick and plaster
- Patented design provides for smooth entry, clean cutting and a strong hold
- Thread design prevents spinning and stripping
- Heat treated point can penetrate metal and wood studs
- Various head styles and colors available
- Self-drills in wallboard and in plywood
- Installs quickly and easily with a Phillips® screwdriver



**WALL-DOG LIGHT DUTY ANCHOR - COMBO HWH**

| CAT. NO. | DESCRIPTION           | STD. BOX | STD. CTN. | MASTER CTN. |
|----------|-----------------------|----------|-----------|-------------|
| 2265     | 1-1/4" Combo HWH Zinc |          |           | 5000        |
| 2271     | 1-1/4" Combo HWH Zinc | 100      | 1000      | N/A         |



**WALL-DOG LIGHT DUTY ANCHOR - WAFER HEAD**

| CAT. NO. | DESCRIPTION                    | STD. BOX | STD. CTN. | MASTER CTN. |
|----------|--------------------------------|----------|-----------|-------------|
| 2277     | 1/4" x 1-1/2" White Wafer Head | 100      | 500       | N/A         |
| 2278     | 1/4" x 2" White Wafer Head     | 100      | 500       | N/A         |
| 2279     | 1/4" x 2-1/4" White Wafer Head | 100      | 500       | N/A         |
| 2280     | 1/4" x 2-1/2" White Wafer Head | 100      | 500       | N/A         |

Phillips® is a registered trademark of Phillips Consumer Electronics Corporation.



**WALL-DOG LIGHT DUTY ANCHOR - ROBERTSON HEAD**

| CAT. NO. | DESCRIPTION                | STD. BOX | STD. CTN. | MASTER CTN. |
|----------|----------------------------|----------|-----------|-------------|
| 2281     | 1-1/4" Zinc Robertson Head |          |           | 5000        |
| 2266     | 1-1/4" Zinc Robertson Head | 100      | 1000      | N/A         |



**WALL-DOG LIGHT DUTY ANCHOR - OVAL HEAD**

| CAT. NO. | DESCRIPTION            | STD. BOX | STD. CTN. | MASTER CTN. |
|----------|------------------------|----------|-----------|-------------|
| 2314     | 1-1/4" Zinc Oval Head  | 100      | 1000      | N/A         |
| 2328     | 1-1/4" White Oval Head | 100      | 1000      | N/A         |
| 2288     | 1-1/4" Black Oval Head | 100      | 500       | N/A         |
| 2292     | 1-1/4" Brass Oval Head | 100      | 500       | N/A         |



**WALL-DOG LIGHT DUTY ANCHOR - PAN HEAD**

| CAT. NO. | DESCRIPTION                     | STD. BOX | STD. CTN. | MASTER CTN. |
|----------|---------------------------------|----------|-----------|-------------|
| 2316     | 1-1/4" Zinc Pan Head            | 100      | 1000      | N/A         |
| 2330     | 1-1/4" White Pan Head           | 100      | 1000      | N/A         |
| 2273     | 1-1/2" White Pan Head           | 100      | 600       | N/A         |
| 2274     | 1-1/2" Bronze Pan Head          | 100      | 600       | N/A         |
| 2275     | 1-1/2" Zinc Pan Head            | 100      | 600       | N/A         |
| 2276     | 1-1/2" Black Phosphate Pan Head | 100      | 600       | N/A         |
| 2286     | 1-1/4" Black Pan Head           | 100      | 500       | N/A         |
| 2294     | 1-1/4" Brass Pan Head           | 100      | 500       | N/A         |



**WALL-DOG KIT (SCREWDRIVER)**

PACKAGED WITH 50 ZINC PANHEAD ANCHORS AND 1 PHILLIPS® SCREWDRIVER

| CAT. NO. | DESCRIPTION                   | STD. BOX | STD. CTN. |
|----------|-------------------------------|----------|-----------|
| 2289     | Wall-Dog Kit with Screwdriver | 1        | 10        |

PACKAGED WITH 50 ZINC PANHEAD ANCHORS AND 3/16" STRAIGHT SHANK BIT

**WALL-DOG KIT (BIT)**

PACKAGED WITH 50 ZINC PANHEAD ANCHORS AND 3/16" STRAIGHT SHANK BIT

| CAT. NO. | DESCRIPTION                 | STD. BOX | STD. CTN. |
|----------|-----------------------------|----------|-----------|
| 2332     | Wall-Dog Kit with Drill Bit | 1        | 10        |



## Scru-Lead

Wall Anchor

**BASE MATERIAL**

Concrete, Block, Brick

**SIZE RANGE**

No. 6-8 x 3/4" to No.16-18 x 1-1/2"

**ANCHOR MATERIAL**

Lead Alloy

The Scru-Lead anchor is designed for use with sheet metal or wood screws in concrete, block or brick. The anchor is made entirely of lead alloy which is soft enough for easy installation, yet hard enough to give holding strength. The performance of this product is dependent on the integrity of the base material.

| CAT. NO. | SIZE           | DRILL DIA. | MIN. DEPTH | STD. BOX | STD. CTN. |
|----------|----------------|------------|------------|----------|-----------|
| 9409     | 6-8 x 3/4"     | 1/4"       | 3/4"       | 100      | 1000      |
| 9414     | 6-8 x 1"       | 1/4"       | 1"         | 100      | 1000      |
| 9419     | 6-8 x 1-1/2"   | 1/4"       | 1-1/2"     | 100      | 500       |
| 9429     | 10-14 x 1"     | 5/16"      | 1"         | 100      | 500       |
| 9439     | 10-14 x 1-1/2" | 5/16"      | 1-1/2"     | 100      | 500       |
| 9460     | 16-18 x 1-1/2" | 3/8"       | 1-1/2"     | 25       | 250       |

## Toggle Bolt

*Hollow Wall Anchor*

BASE MATERIAL

Hollow block, wallboard, plaster

SIZE RANGE

1/8" x 2" to 1/2" x 4"

ANCHOR MATERIAL

Carbon Steel

The Toggle Bolt is a spring wing type hollow wall anchor designed for use in block, wallboard and other hollow base materials. The Toggle Bolt is a two-part assembly consisting of a machine screw and a spring wing toggle. Sizes range from 1/8" x 2" to 1/2" x 4" with combo round, flat, mushroom, tie-wire or slotted hex head styles.



| COMBO MUSHROOM HEAD |            |            |          |           |
|---------------------|------------|------------|----------|-----------|
| CAT. NO.            | SIZE       | DRILL DIA. | STD. BOX | STD. CTN. |
| 4023                | 1/8" x 2"  | 3/8"       | 50       | 500       |
| 4033                | 1/8" x 3"  | 3/8"       | 50       | 500       |
| 4043                | 1/8" x 4"  | 3/8"       | 50       | 500       |
| 4133                | 3/16" x 3" | 1/2"       | 50       | 500       |
| 4143                | 3/16" x 4" | 1/2"       | 50       | 500       |
| 4233                | 1/4" x 3"  | 5/8"       | 50       | 500       |
| 4243                | 1/4" x 4"  | 5/8"       | 50       | 500       |



| SLOTTED HEX HEAD |           |            |          |           |
|------------------|-----------|------------|----------|-----------|
| CAT. NO.         | SIZE      | DRILL DIA. | STD. BOX | STD. CTN. |
| 4038             | 1/8" x 3" | 3/8"       | 50       | 500       |



| COMBO ROUND HEAD |            |            |          |           |
|------------------|------------|------------|----------|-----------|
| CAT. NO.         | SIZE       | DRILL DIA. | STD. BOX | STD. CTN. |
| 4021             | 1/8" x 2"  | 3/8"       | 50       | 500       |
| 4031             | 1/8" x 3"  | 3/8"       | 50       | 500       |
| 4041             | 1/8" x 4"  | 3/8"       | 50       | 500       |
| 4121             | 3/16" x 2" | 1/2"       | 50       | 500       |
| 4131             | 3/16" x 3" | 1/2"       | 50       | 500       |
| 4141             | 3/16" x 4" | 1/2"       | 50       | 500       |
| 4151             | 3/16" x 5" | 1/2"       | 50       | 500       |
| 4161             | 3/16" x 6" | 1/2"       | 50       | 500       |
| 4231             | 1/4" x 3"  | 5/8"       | 50       | 500       |
| 4241             | 1/4" x 4"  | 5/8"       | 50       | 500       |
| 4251             | 1/4" x 5"  | 5/8"       | 50       | 500       |
| 4261             | 1/4" x 6"  | 5/8"       | 50       | 500       |
| 4341             | 5/16" x 4" | 7/8"       | 25       | 250       |
| 4431             | 3/8" x 3"  | 7/8"       | 25       | 250       |
| 4441             | 3/8" x 4"  | 7/8"       | 25       | 250       |
| 4451             | 3/8" x 5"  | 7/8"       | 25       | 125       |
| 4461             | 3/8" x 6"  | 7/8"       | 25       | 125       |
| 4541             | 1/2" x 4"  | 1-1/4"     | 25       | 25        |



| FLAT HEAD |            |            |          |           |
|-----------|------------|------------|----------|-----------|
| CAT. NO.  | SIZE       | DRILL DIA. | STD. BOX | STD. CTN. |
| 4132      | 3/16" x 3" | 1/2"       | 50       | 500       |
| 4142      | 3/16" x 4" | 1/2"       | 50       | 500       |
| 4232      | 1/4" x 3"  | 5/8"       | 50       | 500       |



| TOGGLE WINGS ONLY |       |            |          |           |
|-------------------|-------|------------|----------|-----------|
| CAT. NO.          | SIZE  | DRILL DIA. | STD. BOX | STD. CTN. |
| 4000              | 1/8"  | 3/8"       | 100      | 500       |
| 4020              | 3/16" | 1/2"       | 100      | 1000      |
| 4220              | 1/4"  | 5/8"       | 100      | 1000      |
| 4330              | 5/16" | 7/8"       | 50       | 500       |
| 4430              | 3/8"  | 7/8"       | 50       | 500       |
| 4540              | 1/2"  | 1-1/4"     | 25       | 25        |



| TIE-WIRE ACOUSTICAL TOGGLE |           |                    |            |          |           |
|----------------------------|-----------|--------------------|------------|----------|-----------|
| CAT. NO.                   | SIZE      | TIE WIRE HOLE SIZE | DRILL DIA. | STD. BOX | STD. CTN. |
| 4247                       | 1/4" x 4" | 7/32"              | 5/8"       | 100      | 100       |
| 4257                       | 1/4" x 5" | 7/32"              | 5/8"       | 100      | 100       |

## Polly

*Hollow Wall Anchor*

BASE MATERIAL

Plaster, wallboard, block, hollow tile, plywood

SIZE RANGE

1/8" extra short to 1/4" long

ANCHOR MATERIAL

Carbon Steel

The Polly is a sleeve type hollow wall anchor designed for use in base materials such as plaster, wallboard, concrete block, hollow tile or plywood.



| COMBINATION SLOTTED PHILLIPS HEAD POLLY |          |              |            |                |          |           |
|-----------------------------------------|----------|--------------|------------|----------------|----------|-----------|
| CAT. NO.                                | SIZE     | SCREW LENGTH | DRILL DIA. | WALL THICKNESS | STD. BOX | STD. CTN. |
| 2100                                    | 1/8" XS  | 1-1/16"      | 5/16"      | 1/8"-1/4"      | 100      | 500       |
| 2101                                    | 1/8" S   | 1-3/4"       | 5/16"      | 3/8"-1/2"      | 100      | 500       |
| 2102                                    | 1/8" L   | 2-1/4"       | 5/16"      | 5/8"-1"        | 100      | 500       |
| 2111                                    | 3/16" S  | 2"           | 3/8"       | 3/8"-5/8"      | 50       | 250       |
| 2112                                    | 3/16" L  | 2-1/2"       | 3/8"       | 3/4"-1-1/8"    | 50       | 250       |
| 2113                                    | 3/16" XL | 3"           | 3/8"       | 1-1/4"-1-3/4"  | 25       | 125       |
| 2121                                    | 1/4" S   | 2-1/4"       | 7/16"      | 3/8"-1/2"      | 50       | 250       |
| 2122                                    | 1/4" L   | 2-3/4"       | 7/16"      | 5/8"-1-1/8"    | 50       | 250       |

XS - Extra Short S - Short L - Long XL - Extra Long



| SLOTTED HEX HEAD POLLY |        |              |            |                |          |           |
|------------------------|--------|--------------|------------|----------------|----------|-----------|
| CAT. NO.               | SIZE   | SCREW LENGTH | DRILL DIA. | WALL THICKNESS | STD. BOX | STD. CTN. |
| 2105                   | 1/8" S | 1-3/4"       | 5/16"      | 3/8"-1/2"      | 100      | 500       |

| DRIVE POLLY |         |              |                |          |           |
|-------------|---------|--------------|----------------|----------|-----------|
| CAT. NO.    | SIZE    | SCREW LENGTH | WALL THICKNESS | STD. BOX | STD. CTN. |
| 2180*       | 1/8" XS | 1-3/8"       | 1/8"-1/4"      | 100      | 500       |
| 2182        | 1/8" S  | 2"           | 3/8"-1/2"      | 100      | 500       |
| 2184        | 1/8" L  | 2-3/8"       | 1/2"-3/4"      | 100      | 500       |

\* Discontinued item once current stock exhausted. XS - Extra Short S - Short L - Long



| POLLY SETTING TOOL (FITS ALL SIZES) |                    |          |           |
|-------------------------------------|--------------------|----------|-----------|
| CAT. NO.                            | DESCRIPTION        | STD. BOX | STD. CTN. |
| 2150                                | Polly Setting Tool | 1        | 1         |



## Legs

### Wallboard Anchor

BASE MATERIAL

Wallboard

SIZE RANGE

Use with No.6 or No.8 screw

ANCHOR MATERIAL

Carbon Steel

The Legs anchor is a fast, easy to use expansion anchor designed for use in wallboard. The anchor has a pierce point, requiring no pre-drilling. Removal of the anchor, if required, is easy. Once removed, the anchor leaves a small slit in the wallboard.

| LEGS DRYWALL ANCHOR |                                |          |           |
|---------------------|--------------------------------|----------|-----------|
| CAT. NO.            | DESCRIPTION                    | STD. BOX | STD. CTN. |
| 2336                | Legs Wallboard Anchor          | 100      | 1000      |
| 2335                | Legs Anchor w/ No.8 x 1" Screw | 100      | 1000      |

| MASTER PACK |                       |             |
|-------------|-----------------------|-------------|
| CAT. NO.    | DESCRIPTION           | MASTER CTN. |
| 2338        | Legs Wallboard Anchor | 5000        |



## Zip-All®

### Wallboard Anchor

BASE MATERIAL

Wallboard, Wood

SIZE RANGE

Use with No. 6 or No. 8 screw

ANCHOR MATERIAL

Zamac Alloy

The Zip-All anchor is a one piece self drilling anchor designed for use in hollow gypsum wallboard, wood, block and concrete for light duty loads. It is available in Zamac alloy for use with either a No. 6 or No. 8 screws in 3/8" to 1" wallboard.

| ZIP-ALL  |                |                    |          |           |
|----------|----------------|--------------------|----------|-----------|
| CAT. NO. | WALL THICKNESS | DESCRIPTION        | STD. BOX | STD. CTN. |
| 2296     | 3/8" to 1"     | Zinc - no screws   | 100      | 1000      |
| 2297     | 3/8" to 1"     | Zinc - with screws | 100      | 1000      |



## Sharkie

### Plastic Wall Anchor

BASE MATERIAL

Concrete, Block, Brick & Wallboard

SIZE RANGE

Use with No. 4 x 1" to No. 14 x 1-9/16" screw

ANCHOR MATERIAL

Plastic

The Sharkie is a one-piece plastic anchor designed for light duty applications in wallboard, concrete and masonry. The Sharkie works in hollow or solid base materials and is suitable for screws with various thread sizes and styles. Screws for the anchor may be installed with a screw gun. The Sharkie is available with and without a flange at the top of the anchor to match the application.

| SHARKIE DRYWALL ANCHOR |                              |          |           |
|------------------------|------------------------------|----------|-----------|
| CAT. NO.               | DESCRIPTION                  | STD. BOX | STD. CTN. |
| 7580                   | Sharkie Anchor Flange #4-#10 | 100      | 1000      |
| 7582                   | Sharkie Anchor Flange #6-#12 | 100      | 1000      |
| 7584                   | Sharkie Anchor Flange #8-#14 | 100      | 500       |



### Strap-Toggle™

Hollow Wall Anchor

BASE MATERIAL

Hollow Wallboard or Hollow Block

SIZE RANGE

3/16" x 4" to 1/2" x 4"

ANCHOR MATERIAL

Plastic

The Strap-Toggle is a pre-assembled anchor consisting of a carbon steel wing and a locking cap / ratchet leg assembly molded from engineered plastic. When compared to traditional toggles, this unique anchor can be installed through a smaller hole and does not require a fixture or screw to set in the base material.

| STRAP-TOGGLE |            |            |                |          |           |
|--------------|------------|------------|----------------|----------|-----------|
| CAT. NO.     | SIZE       | DRILL DIA. | WALL THICKNESS | STD. BOX | STD. CTN. |
| 4052         | 3/16" x 4" | 1/2"       | 2-1/2"         | 50       | 300       |
| 4054         | 1/4" x 4"  | 1/2"       | 2-1/2"         | 50       | 300       |
| 4056         | 3/8" x 4"  | 3/4"       | 2-1/2"         | 25       | 150       |
| 4058         | 1/2" x 4"  | 3/4"       | 2-1/2"         | 25       | 150       |

### Zip-It® and Zip-It® Jr.

Wallboard Anchor

BASE MATERIAL

Wallboard

SIZE RANGE

Use with No. 6 or No. 8 screw

ANCHOR MATERIAL

Engineered Nylon or Zamac Alloy

The Zip-It anchor is a one piece self drilling anchor designed for use in hollow gypsum wallboard for light duty loads. It is available in both engineered nylon and Zamac alloy for use with either a No. 6 or No. 8 screws in 3/8" to 1" wallboard. The Zip-It Jr. is formed from engineered nylon for use with No. 6 screws in 3/8" to 5/8" wallboard.



| NYLON ZIP-IT |                |                            |          |           |
|--------------|----------------|----------------------------|----------|-----------|
| CAT. NO.     | WALL THICKNESS | DESCRIPTION                | STD. BOX | STD. CTN. |
| 2345         | 3/8" to 1"     | Std. box, no screws        | 100      | 1000      |
| 2348         | 3/8" to 1"     | Std. box, No.8 x 1" screws | 100      | 1000      |
| 2355         | 3/8" to 1"     | Master ctn., no screws     | -        | 5000      |



| ZINC ZIP-IT |                |                            |          |           |
|-------------|----------------|----------------------------|----------|-----------|
| CAT. NO.    | WALL THICKNESS | DESCRIPTION                | STD. BOX | STD. CTN. |
| 2346Z       | 3/8" to 1"     | Std. box, no screws        | 100      | 1000      |
| 2349Z       | 3/8" to 1"     | Std. box, No.8 x 1" screws | 100      | 1000      |
| 2356Z       | 3/8" to 1"     | Master ctn., no screws     | -        | 1000      |

| ZIP-IT KITS |          |                                |          |           |
|-------------|----------|--------------------------------|----------|-----------|
| CAT. NO.    | MATERIAL | DESCRIPTION                    | STD. BOX | STD. CTN. |
| 2368        | Nylon    | 50 anchors & No. 8 x 1" screws | 1        | 10        |
| 2369        | Zinc     | 50 anchors & No. 8 x 1" screws | 1        | 10        |



| NYLON ZIP-IT JR. |                |                              |          |           |
|------------------|----------------|------------------------------|----------|-----------|
| CAT. NO.         | WALL THICKNESS | DESCRIPTION                  | STD. BOX | STD. CTN. |
| 2350             | 3/8"-5/8"      | Std. box (no screws)         | 100      | 1000      |
| 2351             | 3/8"-5/8"      | Std. box & No. 6 x 1" screws | 100      | 1000      |



| ZINC ZIP-IT JR. |                |                              |          |           |
|-----------------|----------------|------------------------------|----------|-----------|
| CAT. NO.        | WALL THICKNESS | DESCRIPTION                  | STD. BOX | STD. CTN. |
| 2362Z           | 3/8"-5/8"      | Std. box (no screws)         | 100      | 1000      |
| 2364Z           | 3/8"-5/8"      | Std. box & No. 6 x 1" screws | 100      | 1000      |
| 2363Z           | 3/8"-5/8"      | Master ctn. (No screws)      | -        | 5000      |

| ZIP-IT JR. KITS |          |                                                             |          |           |
|-----------------|----------|-------------------------------------------------------------|----------|-----------|
| CAT. NO.        | MATERIAL | DESCRIPTION                                                 | STD. BOX | STD. CTN. |
| 2367            | Nylon    | 50 Anchors, No. 6 x 1" screws and No. 2 Phillips Driver Bit | 1        | 10        |



### Zinc Zip-Toggle®

Hollow Wall Anchor

BASE MATERIAL

Wallboard

SIZE RANGE

Use with No. 6 x 2" screw

ANCHOR MATERIAL

Zamac Alloy

The Zip-Toggle is a hollow gypsum wallboard anchor designed to provide superior performance without the need to pre-drill larger diameter holes. The Zip-Toggle is packaged with its own No. 6 x 2" lubricated screw for 3/8" to 5/8" wallboard.

| CAT. NO. | SIZE                         | SCREWS     | STD. BOX | STD. CTN. |
|----------|------------------------------|------------|----------|-----------|
| 2295     | Metal Zip-Toggle with screws | No. 6 x 2" | 50       | 250       |



### Poly-Toggle®

Plastic Hollow Wall Anchor

BASE MATERIAL

Wallboard or solid masonry

SIZE RANGE

1/8" to 5/8" wall thickness

ANCHOR MATERIAL

Plastic

The Poly-Toggle is a screw actuated hollow wall anchor for use in paneling, wallboard and solid masonry available in 4 sizes to match the most common wall thicknesses. In solid base materials, the anchor can be used by removing the outer wings. The performance of this product depends on the integrity of the base material in which it is installed.

| CAT. NO. | SIZE   | WALL THICKNESS | DRILL DIA. | STD. BOX | STD. CTN. |
|----------|--------|----------------|------------|----------|-----------|
| 2302     | Mini   | 1/8"           | 5/16"      | 100      | 1000      |
| 2303     | Short  | 3/8"           | 5/16"      | 100      | 1000      |
| 2304     | Medium | 1/2"           | 5/16"      | 100      | 1000      |
| 2305     | Long   | 5/8"           | 5/16"      | 100      | 1000      |



## Pop-Toggle

Hollow Wall Anchor

**BASE MATERIAL**

Gypsum Wallboard, Plaster, Plywood & some Hollow Masonry

**SIZE RANGE**

Wall thickness from 1/8" to 5/8", No. 6 to No. 10 wood or sheet metal screws

**ANCHOR MATERIAL**

Plastic

Pop-Toggle fasteners are hollow wall anchors ideal for static applications requiring light duty performance. Installation is easy, needing a pre-drilled 5/16" diameter hole. The fastener pre-installs without a screw, allowing for easy placement and removal of the fixture.

| CAT. NO. | DESCRIPTION       | STD. BOX | STD. CTN. |
|----------|-------------------|----------|-----------|
| 4060     | Pop-Toggle Small  | 100      | 1000      |
| 4062     | Pop-Toggle Medium | 100      | 1000      |
| 4064     | Pop-Toggle Large  | 100      | 1000      |



## Bantam Plug

Plastic Wall Anchor

**BASE MATERIAL**

Concrete, Block, Brick, Wallboard

**SIZE RANGE**

No. 6-8 x 3/4" to No. 14-16 x 1-1/2"

**ANCHOR MATERIAL**

Plastic

The Bantam Plug anchor is a plastic anchor designed for use with lightweight fixtures with a sheet metal or wood screw.

| CAT. NO. | SIZE           | DRILL DIA. | MIN. DEPTH | STD. BOX | STD. CTN. | MSTR. CTN. |
|----------|----------------|------------|------------|----------|-----------|------------|
| 7559     | 6-8 x 3/4"     | 3/16"      | 3/4"       | 100      | 1000      | 150,000    |
| 7569     | 8-10 x 7/8"    | 3/16"      | 7/8"       | 100      | 1000      | 150,000    |
| 7579     | 10-12 x 1"     | 1/4"       | 1"         | 100      | 1000      | 80,000     |
| 7589     | 14-16 x 1-1/2" | 5/16"      | 1-1/2"     | 50       | 500       | 40,000     |

**KITS - SLOTTED/PHILLIPS PAN HEAD SHEET METAL SCREWS**

| CAT. NO. | KIT NO. | ANCHOR SIZE | SCREW SIZE  | MIN. DEPTH | ANCHOR & SCREWS | STD. CTN. |
|----------|---------|-------------|-------------|------------|-----------------|-----------|
| 8934     | B-8     | 8-10        | No. 8 x 1"  | 7/8"       | 100             | 10        |
| 8936     | B-10    | 10-12       | No. 10 x 1" | 1"         | 100             | 10        |
| 8938     | B-12    | 10-12       | No. 12 x 1" | 1"         | 100             | 10        |

100 Anchors and screws plus one drill bit per kit



## Fluted Plastic Anchor

Plastic Wall Anchor

**BASE MATERIAL**

Concrete, Block, Brick, Stone

**SIZE RANGE**

No. 4-6 x 1" to No. 14 x 1-1/2"

**ANCHOR MATERIAL**

Plastic

The Fluted Plastic Anchor is designed for light duty fastening applications with sheet metal or wood screws. Longitudinal ribs on the anchor body prevent it from turning during tightening of the screw. This standard plastic screw anchor comes color-coded by diameter for easy application.

| CAT. NO. | SIZE           | COLOR | DRILL DIA. | MIN. DEPTH | STD. BOX | STD. CTN. |
|----------|----------------|-------|------------|------------|----------|-----------|
| 7500     | 4-6 x 1"       | White | 3/16"      | 1"         | 100      | 1000      |
| 7510     | 10-12 x 1"     | Green | 1/4"       | 1"         | 100      | 1000      |
| 7515     | 10-12 x 1-1/4" | Green | 1/4"       | 1-1/4"     | 100      | 1000      |
| 7520     | 10-12 x 1-1/2" | Green | 1/4"       | 1-1/2"     | 100      | 1000      |
| 7530     | 14 x 1-1/2"    | Blue  | 5/16"      | 1-1/2"     | 100      | 1000      |







**.300 Head Drive Pins**

**Standard Pins**

Drive pins with a 0.300" diameter head are designed for permanently fastening a fixture to concrete, some types of masonry and A36 structural steel. Drive pins are manufactured with a 0.145" diameter shank in various lengths. Knurled shank designs are available to increase performance in steel base materials. A plastic flute is mounted over the point to retain the drive pin in the fastener guide of the tool providing guidance during the driving operation.

| .300 HEAD DRIVE PINS |                |           |            |          |           |
|----------------------|----------------|-----------|------------|----------|-----------|
| CAT. NO.             | SHANK LENGTH   | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50012                | 1/2" (knurled) | .300      | .145       | 100      | 5000      |
| 50016                | 5/8" (knurled) | .300      | .145       | 100      | 5000      |
| 50022                | 3/4"           | .300      | .145       | 100      | 5000      |
| 50023                | 3/4" Black     | .300      | .145       | 100      | 5000      |
| 50026                | 1"             | .300      | .145       | 100      | 5000      |
| 50032                | 1-1/4"         | .300      | .145       | 100      | 1000      |
| 50034                | 1-1/2"         | .300      | .145       | 100      | 1000      |
| 50038                | 2"             | .300      | .145       | 100      | 1000      |
| 50040                | 2-1/4"         | .300      | .145       | 100      | 1000      |
| 50042*               | 2-3/8"         | .300      | .145       | 100      | 1000      |
| 50044                | 2-1/2"         | .300      | .145       | 100      | 1000      |
| 50046                | 2-3/4"         | .300      | .145       | 100      | 1000      |
| 50048                | 3"             | .300      | .145       | 100      | 1000      |

| MASTER PACK |                   |           |            |          |           |
|-------------|-------------------|-----------|------------|----------|-----------|
| CAT. NO.    | SHANK LENGTH      | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50980       | 1/2" knurled      | .300      | .145       | 1000     | 5000      |
| 51041       | 3/4" black pins   | .300      | .145       | 1000     | 5000      |
| 53300       | 5/8" knurled      | .300      | .145       | 1000     | 5000      |
| 53400*      | 5/8" knr. top hat | .300      | .145       | 1000     | 5000      |
| 51040       | 3/4"              | .300      | .145       | 1000     | 5000      |
| 51100       | 1"                | .300      | .145       | 1000     | 5000      |
| 51160       | 1-1/4"            | .300      | .145       | 1000     | 5000      |
| 51340       | 1/2" knr. top hat | .300      | .145       | 1000     | 5000      |
| 51400       | 3/4" top hat      | .300      | .145       | 1000     | 5000      |
| 51520       | 1" top hat        | .300      | .145       | 1000     | 5000      |

\* Discontinued item once current stock exhausted.



| .300 HEAD STEP SHANK PINS |                 |           |            |          |           |
|---------------------------|-----------------|-----------|------------|----------|-----------|
| CAT. NO.                  | SHANK LENGTH    | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50158*                    | 3/4" step shank | .300      | .145/.130  | 100      | 5000      |
| 50159*                    | 1" step shank   | .300      | .145/.130  | 100      | 5000      |

\* Discontinued item once current stock exhausted.



The pins listed below are used primarily for applications fastening drywall track to concrete or steel. They are assembled with a metal top hat to provide extra bearing surface against the drywall track.

| .300 HEAD DRIVE PINS WITH TOP HAT |              |           |            |          |           |
|-----------------------------------|--------------|-----------|------------|----------|-----------|
| CAT. NO.                          | SHANK LENGTH | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50136                             | 1/2" knurled | .300      | .145       | 100      | 5000      |
| 50138                             | 5/8" knurled | .300      | .145       | 100      | 5000      |
| 50140                             | 3/4"         | .300      | .145       | 100      | 5000      |
| 50144                             | 1"           | .300      | .145       | 100      | 5000      |

**Washed Pins**

To provide resistance to pullover, these pins are available with pre-assembled 14 gage (0.075") metal washers in various diameters. The insulation washer has a thickness of 0.035".



| .300 HEAD DRIVE PINS WITH 3/4" WASHER |              |           |            |          |           |
|---------------------------------------|--------------|-----------|------------|----------|-----------|
| CAT. NO.                              | SHANK LENGTH | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50070                                 | 3/4"         | .300      | .145       | 100      | 1000      |
| 50080                                 | 2-1/2"       | .300      | .145       | 100      | 1000      |



| .300 HEAD DRIVE PINS WITH 7/8" WASHER |              |           |            |          |           |
|---------------------------------------|--------------|-----------|------------|----------|-----------|
| CAT. NO.                              | SHANK LENGTH | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50090                                 | 1"           | .300      | .145       | 100      | 1000      |
| 50092                                 | 1-1/4"       | .300      | .145       | 100      | 1000      |
| 50094                                 | 1-1/2"       | .300      | .145       | 100      | 1000      |
| 50096                                 | 2"           | .300      | .145       | 100      | 1000      |
| 50098                                 | 2-1/2"       | .300      | .145       | 100      | 1000      |
| 50100                                 | 3"           | .300      | .145       | 100      | 1000      |



| .300 HEAD DRIVE PINS WITH 1" WASHER |              |           |            |          |           |
|-------------------------------------|--------------|-----------|------------|----------|-----------|
| CAT. NO.                            | SHANK LENGTH | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50108                               | 1-1/4"       | .300      | .145       | 100      | 1000      |
| 50110                               | 1-1/2"       | .300      | .145       | 100      | 1000      |
| 50112                               | 2"           | .300      | .145       | 100      | 1000      |
| 50114                               | 2-1/2"       | .300      | .145       | 100      | 1000      |
| 50116                               | 3"           | .300      | .145       | 100      | 1000      |



| .300 HEAD DRIVE PINS WITH 1-7/16" INSULATION WASHER |              |           |            |          |           |
|-----------------------------------------------------|--------------|-----------|------------|----------|-----------|
| CAT. NO.                                            | SHANK LENGTH | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50122                                               | 1-1/2"       | .300      | .145       | 100      | 1000      |
| 50126                                               | 2-1/2"       | .300      | .145       | 50       | 500       |



Powers ACQ Powder Actuated Fasteners are designed for fastening through pressure treated lumber into concrete and grout filled masonry. The fasteners are available with either a round or square washer for increased pullover resistance.



| .300 HEAD DRIVE PINS (MECHANICALLY GALVANIZED) |              |           |            |          |           |
|------------------------------------------------|--------------|-----------|------------|----------|-----------|
| CAT. NO.                                       | SHANK LENGTH | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50034MG                                        | 1-1/2"       | .300      | .145       | 1000     | 5000      |
| 50038MG                                        | 2"           | .300      | .145       | 1000     | 5000      |
| 50045MG                                        | 2-1/2"       | .300      | .145       | 1000     | 5000      |
| 50047MG                                        | 3"           | .300      | .145       | 1000     | 5000      |

| .300 HEAD DRIVE PINS W/1" WASHER (MECHANICALLY GALVANIZED) |              |           |            |          |           |
|------------------------------------------------------------|--------------|-----------|------------|----------|-----------|
| CAT. NO.                                                   | SHANK LENGTH | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50110MG                                                    | 1-1/2"       | .300      | .145       | 1000     | 5000      |
| 50112MG                                                    | 2"           | .300      | .145       | 1000     | 5000      |
| 50113MG                                                    | 2-1/2"       | .300      | .145       | 1000     | 5000      |
| 50115MG                                                    | 3"           | .300      | .145       | 1000     | 5000      |



### 8mm Head Drive Pins

X-DN Type Pins 8mm Head Drive Pins

| CAT. NO. | SHANK LENGTH     | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
|----------|------------------|-----------|------------|----------|-----------|
| 50180    | 16mm knrld -5/8" | 8mm       | .145       | 100      | 5000      |
| 50182    | 19mm knrld -3/4" | 8mm       | .145       | 100      | 5000      |
| 50184    | 22mm -7/8"       | 8mm       | .145       | 100      | 5000      |
| 50186    | 27mm -1"         | 8mm       | .145       | 100      | 5000      |
| 50188    | 32mm -1-1/4"     | 8mm       | .145       | 100      | 1000      |
| 50190    | 37mm -1-1/2"     | 8mm       | .145       | 100      | 1000      |
| 50192    | 42mm -1-5/8"     | 8mm       | .145       | 100      | 1000      |
| 50194    | 47mm -1-7/8"     | 8mm       | .145       | 100      | 1000      |
| 50196    | 52mm -2"         | 8mm       | .145       | 100      | 1000      |
| 50198    | 57mm -2-1/4"     | 8mm       | .145       | 100      | 1000      |
| 50200    | 62mm -2-1/2"     | 8mm       | .145       | 100      | 1000      |
| 50202    | 72mm -2-7/8"     | 8mm       | .145       | 100      | 1000      |

### 8mm Diameter Head Drive Pins with Top Hat

The pins listed below are used primarily for applications fastening drywall track to concrete or steel. They are assembled with a metal top hat to provide extra bearing surface against the drywall track.



| 8MM DIAMETER HEAD DRIVE PINS WITH TOP HAT |                  |           |            |          |           |
|-------------------------------------------|------------------|-----------|------------|----------|-----------|
| CAT. NO.                                  | SHANK LENGTH     | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50210                                     | 16mm knrld -5/8" | 8mm       | .145       | 100      | 5000      |
| 50214                                     | 22mm -7/8"       | 8mm       | .145       | 100      | 5000      |
| 50216                                     | 27mm -1"         | 8mm       | .145       | 100      | 5000      |

| MASTER CARTON |                 |           |            |          |           |
|---------------|-----------------|-----------|------------|----------|-----------|
| CAT. NO.      | SHANK LENGTH    | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 51700         | 16mm knr. T Hat | 8mm       | .145       | 1000     | 5000      |
| 51750         | 22mm Top Hat    | 8mm       | .145       | 1000     | 5000      |

### Washed Pins

To provide resistance to pullover, these pins are available with preassembled 14 gage (0.075") metal washers in various diameters.



| 8MM DIAMETER HEAD DRIVE PINS WITH 1" WASHER |              |           |            |          |           |
|---------------------------------------------|--------------|-----------|------------|----------|-----------|
| CAT. NO.                                    | SHANK LENGTH | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50220                                       | 27mm -1"     | 8mm       | .145       | 100      | 1000      |
| 50222                                       | 32mm -1-1/4" | 8mm       | .145       | 100      | 1000      |
| 50224                                       | 37mm -1-1/2" | 8mm       | .145       | 100      | 1000      |
| 50226                                       | 52mm -2"     | 8mm       | .145       | 100      | 1000      |
| 50228                                       | 62mm -2-1/2" | 8mm       | .145       | 100      | 1000      |
| 50230                                       | 72mm -2-7/8" | 8mm       | .145       | 100      | 1000      |



### 8mm Head Spiral CSI Drive Pins

Competes with XU Pins  
For Concrete, Steel and I-Beams

**CODE LISTED**  
ICC-ES ESR-1995

| CAT. NO. | SHANK LENGTH  | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
|----------|---------------|-----------|------------|----------|-----------|
| 50197    | 1/2" (13mm)   | 8mm       | .157       | 100      | 1000      |
| 50201    | 5/8" (16mm)   | 8mm       | .157       | 100      | 1000      |
| 50203    | 3/4" (19mm)   | 8mm       | .157       | 100      | 5000      |
| 50204    | 7/8" (22mm)   | 8mm       | .157       | 100      | 5000      |
| 50205    | 1" (27mm)     | 8mm       | .157       | 100      | 5000      |
| 50207    | 1-1/2" (37mm) | 8mm       | .157       | 100      | 5000      |
| 50208    | 1-1/4" (32mm) | 8mm       | .157       | 100      | 1000      |
| 50209    | 2" (52mm)     | 8mm       | .157       | 100      | 1000      |
| 50241    | 2-1/2" (62mm) | 8mm       | .157       | 100      | 1000      |
| 50211    | 2-7/8" (72mm) | 8mm       | .157       | 100      | 1000      |



### 8mm Head Spiral CSI Drive Pins With Washers

Competes with XU Pins  
For Concrete, Steel and I-Beams

| CAT. NO. | SHANK LENGTH  | HEAD DIA. | SHANK DIA. | WASHER | STD. BOX | STD. CTN. |
|----------|---------------|-----------|------------|--------|----------|-----------|
| 50245    | 3/4" (19mm)   | 8mm       | .157       | 3/4"   | 100      | 1,000     |
| 50247    | 1" (27mm)     | 8mm       | .157       | 3/4"   | 100      | 1,000     |
| 50249    | 1-1/4" (32mm) | 8mm       | .157       | 3/4"   | 400      | 1,000     |
| 50261    | 1-1/4" (32mm) | 8mm       | .157       | 1"     | 400      | 1,000     |
| 50263    | 2-1/2" (62mm) | 8mm       | .157       | 1"     | 400      | 1,000     |
| 50265    | 2-7/8" (72mm) | 8mm       | .157       | 1"     | 400      | 1,000     |



### 8mm Head Collated Spiral CSI Drive Pins

Competes with XU Pins  
For Concrete, Steel and I-Beams

| 8MM SPIRAL CSI 10 FASTENER MAGAZINE FOR PA 351 AND DX460 |                   |           |            |          |           |
|----------------------------------------------------------|-------------------|-----------|------------|----------|-----------|
| CAT. NO.                                                 | SHANK LENGTH      | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50450                                                    | 5/8" (16mm) (K)   | 8mm       | .157       | 400      | 1,000     |
| 50452                                                    | 3/4" (19mm) (K)   | 8mm       | .157       | 400      | 1,000     |
| 50454                                                    | 7/8" (22mm) (K)   | 8mm       | .157       | 400      | 1,000     |
| 50456                                                    | 1" (27mm) (K)     | 8mm       | .157       | 400      | 1,000     |
| 50458                                                    | 1-1/4" (32mm) (K) | 8mm       | .157       | 400      | 1,000     |
| 50460                                                    | 1-1/2" (37mm) (K) | 8mm       | .157       | 400      | 1,000     |
| 50461                                                    | 1-5/8" (42mm) (K) | 8mm       | .157       | 400      | 1,000     |
| 50462*                                                   | 2" (52mm) (K)     | 8mm       | .157       | 400      | 1,000     |
| 50464*                                                   | 2-7/8" (72mm) (K) | 8mm       | .157       | 400      | 1,000     |

K=Knurled \* DX460 Only



### 8mm Head Collated Drive Pins

| 8MM HEAD 10 FASTENER MAGAZINE FOR PA 351 AND DX460 |                    |                   |           |            |          |           |
|----------------------------------------------------|--------------------|-------------------|-----------|------------|----------|-----------|
| CAT. NO.                                           | SHANK LENGTH (IN.) | SHANK LENGTH (MM) | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50244N                                             | 3/4"               | 19                | 8mm       | .145       | 500      | 2500      |
| 50246N                                             | 7/8"               | 22                | 8mm       | .145       | 500      | 2500      |
| 50248N                                             | 1"                 | 27                | 8mm       | .145       | 500      | 2500      |

| CAT. NO. | SHANK LENGTH (IN.) | SHANK LENGTH (MM) | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
|----------|--------------------|-------------------|-----------|------------|----------|-----------|
| 50250N   | 1-1/4"             | 32                | 8mm       | .145       | 500      | 2500      |
| 50252N   | 1-1/2"             | 37                | 8mm       | .145       | 500      | 2500      |
| 50254N   | 1-5/8"             | 42                | 8mm       | .145       | 500      | 2500      |
| 50256N   | 1-7/8"             | 47                | 8mm       | .145       | 500      | 2500      |
| 50258N   | 2"                 | 52                | 8mm       | .145       | 500      | 2500      |
| 50260N   | 2 1/4"             | 57                | 8mm       | .145       | 500      | 2500      |
| 50262N   | 2 1/2"             | 62                | 8mm       | .145       | 500      | 2500      |
| 50264N   | 2 7/8"             | 67                | 8mm       | .145       | 500      | 2500      |
| 50240N   | 5/8" K             | 16                | 8mm       | .145       | 500      | 2500      |
| 50242N   | 3/4" K             | 19                | 8mm       | .145       | 500      | 2500      |

K=Knurled



### 10mm Head Drive Pins

DS Type Pins

**CODE LISTED**  
ICC-ES ESR-1995

Drive pins with 10mm diameter head are designed for permanently fastening a fixture to concrete, some types of masonry and A36 structural steel. Drive pins are manufactured with a 0.177" diameter shank in various lengths. A plastic washer is mounted over the point to retain the drive pin in the fastener guide of the tool providing guidance during the driving operation.

| 10MM HEAD DRIVE PINS FOR P3600 |              |           |            |          |           |      |
|--------------------------------|--------------|-----------|------------|----------|-----------|------|
| CAT. NO.                       | SHANK LENGTH | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |      |
| 50846                          | 3/4"         | 19mm      | 10mm       | .177     | 100       | 1000 |
| 50848                          | 7/8"         | 22mm      | 10mm       | .177     | 100       | 1000 |
| 50850                          | 1"           | 27mm      | 10mm       | .177     | 100       | 1000 |
| 50852                          | 1-1/4"       | 32mm      | 10mm       | .177     | 100       | 1000 |
| 50854                          | 1-5/8"       | 42mm      | 10mm       | .177     | 100       | 1000 |
| 50856                          | 2"           | 52mm      | 10mm       | .177     | 100       | 1000 |
| 50858                          | 2-1/2"       | 62mm      | 10mm       | .177     | 100       | 1000 |
| 50860                          | 2-7/8"       | 72mm      | 10mm       | .177     | 100       | 1000 |
| 50862                          | 3-1/4"       | 82mm      | 10mm       | .177     | 100       | 1000 |
| 50864                          | 3-3/4"       | 97mm      | 10mm       | .177     | 100       | 1000 |
| 50866                          | 4-1/2"       | 117mm     | 10mm       | .177     | 100       | 1000 |

### Ballistic Point™ Drive Pins

Premium drive pins with a 0.300" diameter head and specially designed point to allow more consistent penetration into harder base materials. Manufactured with a 0.150" diameter straight and step shank in various lengths. A plastic flute is mounted over the point to retain the drive pin in the fastener guide of the tool providing guidance during the driving operation.



| BALLISTIC POINT DRIVE PINS (BLACK) |              |           |            |          |           |  |
|------------------------------------|--------------|-----------|------------|----------|-----------|--|
| CAT. NO.                           | SHANK LENGTH | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |  |
| 50052                              | 1/2"         | .300      | .150       | 100      | 1000      |  |
| 50054                              | 3/4"         | .300      | .150       | 100      | 1000      |  |



| BALLISTIC POINT STEP SHANK PINS |              |           |            |          |           |  |
|---------------------------------|--------------|-----------|------------|----------|-----------|--|
| CAT. NO.                        | SHANK LENGTH | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |  |
| 50056                           | 1-1/4"       | .300      | .181/.150  | 100      | 5000      |  |
| 50057                           | 1-7/8"       | .300      | .181/.150  | 100      | 1000      |  |

### Threaded Studs

Available in 1/4"-20 and 3/8"-16 thread diameters with a variety of thread and shank lengths for concrete and A36 structural steel. Used for applications where it may be desirable to remove the fixture, or where shimming may be required. The shank diameter: 0.145" for the 1/4"-20; and 0.205" for the 3/8"-16. Knurled shanks are available to increase performance in steel base materials. A plastic flute is mounted over the point to retain the drive pin in the fastener guide

of the tool for guidance during the driving operation. On the 1/4"-20 threaded studs, a plastic cap is also provided to protect the threads of the fastener during the driving process.



| 1/4" -20 THREADED STUDS |               |              |             |            |          |           |
|-------------------------|---------------|--------------|-------------|------------|----------|-----------|
| CAT. NO.                | THREAD LENGTH | SHANK LENGTH | THREAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50322                   | 3/4"          | 1/2" K       | 1/4"        | .145       | 100      | 1000      |
| 50326                   | 3/4"          | 3/4"         | 1/4"        | .145       | 100      | 1000      |
| 50328                   | 1/2"          | 1"           | 1/4"        | .145       | 100      | 1000      |
| 50330                   | 3/4"          | 1"           | 1/4"        | .145       | 100      | 1000      |
| 50336                   | 3/4"          | 1-1/4"       | 1/4"        | .145       | 100      | 1000      |
| 50338                   | 1-1/4"        | 1-1/4"       | 1/4"        | .145       | 100      | 1000      |

K=Knurled



| 3/8" -16 THREADED STUDS |               |              |             |            |          |           |
|-------------------------|---------------|--------------|-------------|------------|----------|-----------|
| CAT. NO.                | THREAD LENGTH | SHANK LENGTH | THREAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50340                   | 1-1/4"        | 3/4" K       | 3/8"        | .205       | 100      | 1000      |
| 50342                   | 1-1/4"        | 1"           | 3/8"        | .205       | 100      | 1000      |
| 50344                   | 1-1/4"        | 1-1/4"       | 3/8"        | .205       | 100      | 1000      |

K=Knurled

### 3/8" Head Drive Pins

Designed for permanently fastening a fixture to concrete, some types of masonry and A36 structural steel. Manufactured with a 0.172" diameter shank in various lengths. A plastic flute is mounted over the point to retain the drive pin in the fastener guide of the tool providing guidance during the driving operation.



| 3/8" HEAD DRIVE PINS |                       |           |            |          |           |  |
|----------------------|-----------------------|-----------|------------|----------|-----------|--|
| CAT. NO.             | SHANK LENGTH          | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |  |
| 50174*               | 3"                    | 3/8"      | .172       | 100      | 1000      |  |
| 50176*               | 3-1/8" (w/step shank) | 3/8"      | .216/.188  | 100      | 1000      |  |

\* Discontinued item once current stock exhausted.

### Hammer Drive Pins

No Powder Loads Required

Hammer Drive pins are designed for permanently fastening a fixture to concrete and some types of masonry. This fastener is designed for use in a standard hand tool and should not be used in a powder actuated tool. The pins are formed with a 1/4" diameter head on one end and a 0.140" diameter shank in various lengths. A 3/8" diameter steel washer is mounted over the point to retain the drive pin in the fastener guide of the tool providing guidance during the driving operation.



| 1/4" HEAD HAMMER DRIVE PINS |              |           |            |          |           |  |
|-----------------------------|--------------|-----------|------------|----------|-----------|--|
| CAT. NO.                    | SHANK LENGTH | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |  |
| 50294                       | 3/4"         | 1/4"      | .140       | 100      | 5000      |  |
| 50296                       | 1"           | 1/4"      | .140       | 100      | 5000      |  |
| 50298                       | 1-1/4"       | 1/4"      | .140       | 100      | 1000      |  |
| 50306*                      | 3"           | 1/4"      | .140       | 100      | 1000      |  |

\* Discontinued item once current stock exhausted.



| HAMMER DRIVE SETTING TOOL |                              |          |           |
|---------------------------|------------------------------|----------|-----------|
| CAT. NO.                  | DESCRIPTION                  | STD. BOX | STD. CTN. |
| 50310                     | Hammer Drive Tool - Standard | 1        | 1         |

## Assemblies & Accessories

Assemblies are combinations of drive pins and stamped steel clips designed for specific applications. The pins are held within the clip using either a dome mechanism or a metal top hat.

### Ceiling Clip Assemblies

For applications suspending acoustical ceiling systems or light fixtures, several styles of angled clips are pre-mounted onto pins.



| .300 HEAD PINS WITH CEILING CLIPS |             |           |            |           |          |           |
|-----------------------------------|-------------|-----------|------------|-----------|----------|-----------|
| CAT. NO.                          | DESCRIPTION | HEAD DIA. | SHANK DIA. | WIRE HOLE | STD. BOX | STD. CTN. |
| 50363††*                          | 1"          | .300      | .145       | 0.278"    | 100      | 1000      |
| 50364                             | 1"          | .300      | .145       | 0.278"    | 100      | 1000      |
| 50368†                            | 1-1/8"      | .300      | .145       | 0.278"    | 100      | 1000      |
| 50370                             | 1-1/4"      | .300      | .145       | 0.278"    | 100      | 1000      |

† Economy Clip    †† Ceiling clip without dome    \* Discontinued item once current stock exhausted.



| 8MM DRIVE HEAD PINS WITH CEILING CLIPS |             |           |            |           |          |           |
|----------------------------------------|-------------|-----------|------------|-----------|----------|-----------|
| CAT. NO.                               | DESCRIPTION | HEAD DIA. | SHANK DIA. | WIRE HOLE | STD. BOX | STD. CTN. |
| 50272                                  | 27mm w/CC   | 8mm       | .145       | 0.278"    | 100      | 1000      |
| 50274                                  | 32mm w/CC   | 8mm       | .145       | 0.278"    | 100      | 1000      |
| 50206                                  | 1-1/4" w/CC | 8mm       | .177       | 0.278"    | 100      | 1000      |



| BALLISTIC POINT DRIVE PIN WITH CEILING CLIP |                                |           |            |           |          |           |
|---------------------------------------------|--------------------------------|-----------|------------|-----------|----------|-----------|
| CAT. NO.                                    | SHANK LENGTH                   | HEAD DIA. | SHANK DIA. | WIRE HOLE | STD. BOX | STD. CTN. |
| 50058                                       | 1-1/4" with ceiling clip (45°) | .300      | .181/.150  |           | 100      | 1000      |
| 50366                                       | 7/8" with ceiling clip (90°)   | .300      | .181/.150  |           | 100      | 1000      |

| PRE-ASSEMBLED PIN AND CLIP FOR LADD TOOL (L1600) |                        |           |            |           |          |           |
|--------------------------------------------------|------------------------|-----------|------------|-----------|----------|-----------|
| CAT. NO.                                         | SHANK LENGTH           | HEAD DIA. | SHANK DIA. | WIRE HOLE | STD. BOX | STD. CTN. |
| 50438                                            | Pre-assembled pin clip | .310      | .155       | 0.278"    | 100      | 1000      |

### BX & EMT Conduit Clip Assemblies

For the electrical trade, BX and EMT conduit clips are provided in various sizes for attaching conduit to base materials.



| .300 HEAD DRIVE PINS WITH BX CABLE CLIPS |              |           |            |          |           |  |
|------------------------------------------|--------------|-----------|------------|----------|-----------|--|
| CAT. NO.                                 | DESCRIPTION  | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |  |
| 50150                                    | 1" (BX) w/TH | .300      | .145       | 100      | 1000      |  |



| .300 HEAD DRIVE PINS WITH EMT CONDUIT CLIPS |                     |           |            |          |           |  |
|---------------------------------------------|---------------------|-----------|------------|----------|-----------|--|
| CAT. NO.                                    | DESCRIPTION         | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |  |
| 50382                                       | 1/2" EMT 1" pin     | .300      | .145       | 100      | 1000      |  |
| 50384                                       | 3/4" EMT 1-1/4"     | .300      | .145       | 100      | 1000      |  |
| 50385                                       | 3/4" EMT 1" pin TH  | .300      | .145       | 100      | 1000      |  |
| 50386                                       | 3/4" EMT 1-1/8" pin | .300      | .145       | 100      | 1000      |  |
| 50388                                       | 1" EMT 1" pin TH    | .300      | .145       | 25       | 250       |  |



| 8MM DIAMETER HEAD DRIVE PINS WITH EMT CONDUIT CLIPS |                     |           |            |          |           |  |
|-----------------------------------------------------|---------------------|-----------|------------|----------|-----------|--|
| CAT. NO.                                            | DESCRIPTION         | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |  |
| 50276                                               | 27mm TH w/ 1/2" EMT | 8mm       | .145       | 100      | 1000      |  |
| 50278                                               | 27mm TH w/ 3/4" EMT | 8mm       | .145       | 100      | 500       |  |
| 50280                                               | 27mm TH w/ 1" EMT   | 8mm       | .145       | 25       | 250       |  |



| 8MM HEAD DRIVE PINS WITH ROD HANGER CLIP |                                         |            |          |           |  |  |
|------------------------------------------|-----------------------------------------|------------|----------|-----------|--|--|
| CAT. NO.                                 | DESCRIPTION                             | SHANK DIA. | STD. BOX | STD. CTN. |  |  |
| 50219                                    | 32mm (1-1/4") pin w/ 1/4"-20 rod hanger | .145       | 100      | 1000      |  |  |
| 50221                                    | 32mm (1-1/4") pin w/ 3/8"-16 rod hanger | .145       | 100      | 1000      |  |  |

| 8MM HEAD SPIRAL CSI DRIVE PIN WITH ROD HANGER CLIP |                                         |            |          |           |  |  |
|----------------------------------------------------|-----------------------------------------|------------|----------|-----------|--|--|
| CAT. NO.                                           | DESCRIPTION                             | SHANK DIA. | STD. BOX | STD. CTN. |  |  |
| 50215                                              | 32mm (1-1/4") pin w/ 1/4"-20 rod hanger | .157       | 100      | 1000      |  |  |



| 8MM HEAD SPIRAL CSI DRIVE PIN WITH CEILING CLIP |                                |           |            |           |          |           |
|-------------------------------------------------|--------------------------------|-----------|------------|-----------|----------|-----------|
| CAT. NO.                                        | DESCRIPTION                    | HEAD DIA. | SHANK DIA. | WIRE HOLE | STD. BOX | STD. CTN. |
| 50212                                           | 7/8" (22mm) CSI w/PW TH 90cc   | 8mm       | .157       | 0.313"    | 100      | 1000      |
| 50213                                           | 1" (27mm) CSI w/PW TH 90cc     | 8mm       | .157       | 0.313"    | 100      | 1000      |
| 50218                                           | 1-1/4" (32mm) CSI w/Pw TH 90cc | 8mm       | .157       | 0.313"    | 100      | 1000      |



| .300 HEAD DRIVE PIN WITH CEILING CLIP AND POST NUT |                                              |            |          |           |  |  |
|----------------------------------------------------|----------------------------------------------|------------|----------|-----------|--|--|
| CAT. NO.                                           | DESCRIPTION                                  | SHANK DIA. | STD. BOX | STD. CTN. |  |  |
| 50376                                              | 1-1/8" Pin w/domed right angle cc w/post nut | .145       | 100      | 1000      |  |  |
| 50378                                              | 1-1/4" Pin w/domed right angle cc w/post nut | .145       | 100      | 1000      |  |  |

### Rebar Basket Assemblies

Rebar basket clips are typically used in highway construction and paving applications to hold the support baskets for the reinforcing bars in place while the concrete is being poured. For #4 rebar.



| 8MM HEAD DRIVE PINS WITH REBAR BASKET CLIP |                     |           |            |          |           |
|--------------------------------------------|---------------------|-----------|------------|----------|-----------|
| CAT. NO.                                   | DESCRIPTION         | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50702                                      | 32mm w/ basket clip | 8mm       | .145       | 100      | 500       |
| 50704                                      | 37mm w/ basket clip | 8mm       | .145       | 100      | 500       |
| 50710*                                     | 47mm w/ basket clip | 8mm       | .145       | 100      | 500       |
| 50712                                      | 52mm w/ basket clip | 8mm       | .145       | 100      | 500       |
| 50716                                      | 62mm w/ basket clip | 8mm       | .145       | 100      | 500       |
| 50718                                      | 72mm w/ basket clip | 8mm       | .145       | 100      | 500       |

\* Discontinued item once current stock exhausted.

For concrete forming applications, the 1-3/4" (44mm) pin is designed for fastening wood members up to 3/4" in thickness while the 2-1/2" (62mm) pin is designed for wood members up to 1-1/2" in thickness. The pin has a break off groove 1" from the point to allow the wood forming members to be easily removed.



| FORMING PIN |               |           |            |          |           |
|-------------|---------------|-----------|------------|----------|-----------|
| CAT. NO.    | SHANK LENGTH  | HEAD DIA. | SHANK DIA. | STD. BOX | STD. CTN. |
| 50789*      | 44mm - 1-3/4" | .181      | .145       | 100      | 5000      |
| 50790       | 62mm - 2-1/2" | .181      | .145       | 100      | 1000      |

\* Discontinued item once current stock exhausted.

### Fastener Accessories

In addition to the assemblies, the following accessories are available for use with drive pins or threaded studs as indicated below.



| ACCESSORIES |                                           |          |           |
|-------------|-------------------------------------------|----------|-----------|
| CAT. NO.    | DESCRIPTION                               | STD. BOX | STD. CTN. |
| 50400       | Ceiling clip (no pin) 9/32" & 5/16" holes | 100      | 1000      |
| 50439*      | LADD clip - no pin                        | 100      | 1000      |
| 50365*      | Domed ceiling clip - no pin               | 100      | 1000      |

\* Discontinued item once current stock exhausted.



### P1000

SIZE RANGE  
1/2" to 3" lengths, .22 caliber

Hammer actuated, powder actuated tool. Engineered for high reliability, low maintenance and speed. This tool uses four levels of power; grey through yellow loads (levels 1-4) and .300, 8mm head fasteners with lengths of 1/2" through 3" and 1/4"-20 threaded studs.

| TECHNICAL DATA                                                                            |                                            |
|-------------------------------------------------------------------------------------------|--------------------------------------------|
| TOOL BODY                                                                                 | PIN LENGTH                                 |
| Precision Moulded Rubber                                                                  | 1/2" to 3" Total Length                    |
| TOOL LENGTH                                                                               | LOAD TYPE                                  |
| 13"                                                                                       | .22 Caliber                                |
| TOOL WEIGHT                                                                               | POWER LEVEL                                |
| 3 lbs.                                                                                    | Gray (1), Brown (2), Green (3), Yellow (4) |
| PIN TYPE                                                                                  |                                            |
| Ballistic Point Drive Pin, .300 Head Drive Pin, 8mm Head Drive Pin, 1/4"-20 Threaded Stud |                                            |

TYPICAL APPLICATIONS  
Remodeling • Electrical • Maintenance • Telecommunications

| P1000 SELECTION GUIDE |             |           |
|-----------------------|-------------|-----------|
| CAT. NO.              | DESCRIPTION | STD. CTN. |
| 52013                 | P1000 Tool  | 1         |



### T1000

SIZE RANGE  
1/2" to 3" lengths, .22 caliber

Professional grade powder actuated tool engineered for high reliability, low maintenance and speed. Its easy to use trigger mechanism makes fastening to concrete, block and steel simple. The tool uses 22 caliber powder loads.

| TECHNICAL DATA                                                                            |                                            |
|-------------------------------------------------------------------------------------------|--------------------------------------------|
| TOOL BODY                                                                                 | PIN LENGTH                                 |
| Precision Moulded Rubber                                                                  | 1/2" to 3" Total Length                    |
| TOOL LENGTH                                                                               | LOAD TYPE                                  |
| 13"                                                                                       | .22 Caliber                                |
| TOOL WEIGHT                                                                               | POWER LEVEL                                |
| 3 lbs.                                                                                    | Gray (1), Brown (2), Green (3), Yellow (4) |
| PIN TYPE                                                                                  |                                            |
| Ballistic Point Drive Pin, .300 Head Drive Pin, 8mm Head Drive Pin, 1/4"-20 Threaded Stud |                                            |

TYPICAL APPLICATIONS  
Remodeling • Electricians • Maintenance • Telecommunications

| T1000 SELECTION GUIDE |             |           |
|-----------------------|-------------|-----------|
| CAT. NO.              | DESCRIPTION | STD. CTN. |
| 52035                 | T1000 Tool  | 1         |

**Tool Operation:** Powder actuated tools may be used only by properly trained and licensed operators as described in ANSI Standard A 10.3. For complete tool operation details, completely review the tool manual and contact your local Powers branch office or distributor for training.



**P2201**

SIZE RANGE

1/2" to 3" pin lengths, .22 caliber

The P2201 is a low velocity, single shot, .22 caliber tool which can be used to install .300 head drive pins, 8mm head drive pins and 1/4"-20 threaded studs, up to 3" in total length. The P2201 is designed for maintenance or residential contractors.

**TECHNICAL DATA**

|                                                                                           |                                            |
|-------------------------------------------------------------------------------------------|--------------------------------------------|
| TOOL BODY                                                                                 | PIN LENGTH                                 |
| Engineered Plastic                                                                        | 1/2" to 3" Total Length                    |
| TOOL LENGTH                                                                               | LOAD TYPE                                  |
| 12-1/2"                                                                                   | .22 Caliber Crimped "A" Load               |
| TOOL WEIGHT                                                                               | POWER LEVEL                                |
| 4.3 lbs.                                                                                  | Gray (1), Brown (2), Green (3), Yellow (4) |
| PIN TYPE                                                                                  |                                            |
| Ballistic Point Drive Pin, .300 Head Drive Pin, 8mm Head Drive Pin, 1/4"-20 Threaded Stud |                                            |

**TYPICAL APPLICATIONS**

|             |                                |
|-------------|--------------------------------|
| TRADE       | APPLICATION                    |
| Drywall     | Metal track                    |
| Forming     | Concrete forms                 |
| Residential | Sill plate                     |
| Electrical  | Boxes, conduit clip assemblies |
| Mechanical  | Duct straps                    |

**P2201 SELECTION GUIDE**

| CAT. NO. | DESCRIPTION          | STD. CTN. |
|----------|----------------------|-----------|
| 52006    | P2201 Tool           | 1         |
| 52007    | P2201 (Blister Pack) | 1         |
| 52522    | Piston               | 1         |
| 52510    | Nose Piece           | 1         |
| 52512    | Piston Reset Pin     | 1         |

**Tool Operation:** Powder actuated tools may be used only by properly trained and licensed operators as described in ANSI Standard A 10.3. For complete tool operation details, completely review the tool manual and contact your local Powers branch office or distributor for training.



**P35s**

SIZE RANGE

1/2" to 1-1/2" pin lengths, .25 caliber

The P35s is specially designed for acoustical and drywall contractors. It is a low velocity, semi-automatic, tool which can be used to install .300 head drive pins, 8mm head drive pins and 1/4"-20 threaded studs up to 1-1/2" in total length. The P35s is designed for high speed and repetitive volume applications. The standard version of the tool is supplied with a flat end piston and a full size baseplate/guide. A limited access baseplate/guide assembly is also available.

**TECHNICAL DATA**

|                                                                                           |                                |
|-------------------------------------------------------------------------------------------|--------------------------------|
| TOOL BODY                                                                                 | PIN LENGTH                     |
| Precision Cast Aluminum                                                                   | 1/2" to 1-1/2" Total Length    |
| TOOL LENGTH                                                                               | LOAD TYPE                      |
| 11-1/4"                                                                                   | .25 Caliber in a 10 Load Strip |
| TOOL WEIGHT                                                                               | POWER LEVEL                    |
| 4.25 lbs.                                                                                 | Green (3), Yellow (4), Red (5) |
| PIN TYPE                                                                                  |                                |
| Ballistic Point Drive Pin, .300 Head Drive Pin, 8mm Head Drive Pin, 1/4"-20 Threaded Stud |                                |

**TYPICAL APPLICATIONS**

|            |                                |
|------------|--------------------------------|
| TRADE      | APPLICATION                    |
| Acoustical | Ceiling clip assemblies        |
| Drywall    | Metal track, door frames       |
| Electrical | Boxes, conduit clip assemblies |
| Mechanical | Duct straps                    |

**SELECTION GUIDE**

| CAT. NO. | DESCRIPTION              | STD. CTN. |
|----------|--------------------------|-----------|
| 52002    | P35s Tool (Deluxe Kit)   | 1         |
| 52023    | P35s Tool (Blister Pack) | 1         |
| 52200    | Piston Standard 21/SDF   | 1         |
| 52204    | Guide 21/F3-1            | 1         |
| 52206    | Baseplate 21/S1          | 1         |

**POLE TOOLS FOR OVERHEAD ATTACHMENTS**

| CAT. NO. | DESCRIPTION               | STD. CTN. |
|----------|---------------------------|-----------|
| 50065    | 6' Di-Electric Pole Tool  | 1         |
| 50066    | 8' Di-Electric Pole Tool  | 1         |
| 52041    | 6' Smacker Pole Tool      | 1         |
| 52045    | 3' Smacker Pole Extension | 1         |

**Tool Operation:** Powder actuated tools may be used only by properly trained and licensed operators as described in ANSI Standard A 10.3. For complete tool operation details, completely review the tool manual and contact your local Powers branch office or distributor for training.



### P7201

**SIZE RANGE**  
1/2" to 1-1/2" pin lengths, .22 caliber

The P7201 is a low velocity, single shot .22 caliber tool which can be used to install .300" head drive pins, 8mm head drive pins and 1/4"-20 threaded studs up to 1-1/2" in total length. The P7201 is commonly used in the drywall trade.

| TECHNICAL DATA                                                                            |                                            |
|-------------------------------------------------------------------------------------------|--------------------------------------------|
| TOOL BODY                                                                                 | PIN LENGTH                                 |
| Precision Cast Aluminum                                                                   | 1/2" to 1-1/2" Total Length                |
| TOOL LENGTH                                                                               | LOAD TYPE                                  |
| 13-1/2"                                                                                   | .22 Caliber Crimped "A" Load               |
| TOOL WEIGHT                                                                               | POWER LEVEL                                |
| 4.3 lbs.                                                                                  | Gray (1), Brown (2), Green (3), Yellow (4) |
| PIN TYPE                                                                                  |                                            |
| Ballistic Point Drive Pin, .300 Head Drive Pin, 8mm Head Drive Pin, 1/4"-20 Threaded Stud |                                            |

| TYPICAL APPLICATIONS |                                |
|----------------------|--------------------------------|
| TRADE                | APPLICATION                    |
| Acoustical           | Ceiling clip assemblies        |
| Drywall              | Metal track                    |
| Electrical           | Boxes, conduit clip assemblies |
| Mechanical           | Duct straps                    |

| P7201 SELECTION GUIDE |                           |           |
|-----------------------|---------------------------|-----------|
| CAT. NO.              | DESCRIPTION               | STD. CTN. |
| 52004                 | P7201 Tool (Deluxe Kit)   | 1         |
| 52005                 | P7201 Tool (Blister pack) | 1         |
| 52300                 | Piston                    | 1         |
| 52306                 | Barrel Extension 5/16"    | 1         |
| 52308                 | Barrel Stop Pin           | 1         |

**Tool Operation:** Powder actuated tools may be used only by properly trained and licensed operators as described in ANSI Standard A 10.3. For complete tool operation details, completely review the tool manual and contact your local Powers branch office or distributor for training.

### P3500

**SIZE RANGE**  
1/2" to 3" pin lengths, .27 caliber strip

The P3500 is a low velocity, semi-automatic .27 caliber tool which can be used to install .300 head drive pins, 8mm head drive pins and 1/4"-20 threaded studs, up to 3" in total length. The P3500 is designed for high speed and repetitive volume applications.

| TECHNICAL DATA                                                                            |                        |                                           |
|-------------------------------------------------------------------------------------------|------------------------|-------------------------------------------|
| TOOL BODY                                                                                 | PIN LENGTH             | TOOL LENGTH                               |
| Precision Cast Aluminum                                                                   | 1/2" - 3" Total Length | 13-5/8"                                   |
| LOAD TYPE                                                                                 | TOOL WEIGHT            | POWER LEVEL                               |
| 27 Caliber /10 Load Strip                                                                 | 5 lbs.                 | Brown (2), Green (3), Yellow (4), Red (5) |
| PIN TYPE                                                                                  |                        |                                           |
| Ballistic Point Drive Pin, .300 Head Drive Pin, 8mm Head Drive Pin, 1/4"-20 Threaded Stud |                        |                                           |

| TYPICAL APPLICATIONS |                                            |             |                                 |
|----------------------|--------------------------------------------|-------------|---------------------------------|
| TRADE                | APPLICATION                                | TRADE       | APPLICATION                     |
| Acoustical           | Ceiling clip assemblies                    | Electrical  | Boxes, conduit clips assemblies |
| Drywall              | Metal track, door frames                   | Mechanical  | Duct straps                     |
| Forming              | Concrete forms, basket clips, forming pins | Residential | Sill plates                     |

| P3500 SELECTION GUIDE                                                            |                                         |           |
|----------------------------------------------------------------------------------|-----------------------------------------|-----------|
| CAT. NO.                                                                         | DESCRIPTION                             | STD. CTN. |
| 52000                                                                            | P3500 Powder Tool (Deluxe Kit)          | 1         |
| 52001                                                                            | P3500 Powder Tool (Blister Pack)        | 1         |
| 52102                                                                            | Piston Flat End w/ Ring                 | 1         |
| 52108                                                                            | Guide 2/F-3                             | 1         |
| 52110                                                                            | Base Plate 2/S-13                       | 1         |
| 52120                                                                            | Shear Clip                              | 1         |
| 52112                                                                            | Piston Stop                             | 1         |
| 52122                                                                            | Steel Annular Ball                      | 1         |
| 52106                                                                            | Piston Ring                             | 1         |
| PISTON FOR INSTALLING 8MM HEAD DRIVE PINS                                        |                                         |           |
| 52100                                                                            | Piston 2/DN-1 (for 8mm Head Drive Pins) | 1         |
| FOR APPLICATIONS IN TIGHT AREAS, A LIMITED ACCESS BASE PLATE/GUIDE IS AVAILABLE. |                                         |           |
| 52114                                                                            | Guide 2/F-4 Limited Access              | 1         |
| 52116                                                                            | Baseplate 2/F-14-1 Limited Access       | 1         |

| POLE TOOLS FOR OVERHEAD ATTACHMENTS |                           |           |
|-------------------------------------|---------------------------|-----------|
| CAT. NO.                            | DESCRIPTION               | STD. CTN. |
| 50065                               | 6' Di-Electric Pole Tool  | 1         |
| 50066                               | 8' Di-Electric Pole Tool  | 1         |
| 52041                               | 6' Smacker Pole Tool      | 1         |
| 52045                               | 3' Smacker Pole Extension | 1         |

**Tool Operation:** Powder actuated tools may be used only by properly trained and licensed operators as described in ANSI Standard A 10.3. For complete tool operation details, completely review the tool manual and contact your local Powers branch office or distributor for training.



## PA3500

### SIZE RANGE

1/2" to 3" pin lengths, .27 caliber strip

The PA3500 is a modified version of the P3500 that includes a power adjuster, allowing the operator to effectively decrease the power level of the load being used. A red load can be reduced down to the level of a green load.

### POWER ADJUSTER SETTINGS

1 - Minimum Power      3 - Medium Power      6 - Maximum Power

### TECHNICAL DATA

| TOOL BODY                  | PIN LENGTH             | TOOL LENGTH                               |
|----------------------------|------------------------|-------------------------------------------|
| Precision Cast Aluminum    | 1/2" - 3" Total Length | 13-5/8"                                   |
| LOAD TYPE                  | TOOL WEIGHT            | POWER LEVEL                               |
| .27 Caliber /10 Load Strip | 5 lbs.                 | Brown (2), Green (3), Yellow (4), Red (5) |

### PIN TYPE

Ballistic Point Drive Pin, .300 Head Drive Pin, 8mm Head Drive Pin, 1/4"-20 Threaded Stud

### TYPICAL APPLICATIONS

| TRADE      | APPLICATION                                | TRADE       | APPLICATION                    |
|------------|--------------------------------------------|-------------|--------------------------------|
| Acoustical | Ceiling clip assemblies                    | Electrical  | Boxes, conduit clip assemblies |
| Drywall    | Metal track, door frames                   | Mechanical  | Duct straps                    |
| Forming    | Concrete forms, basket clips, forming pins | Residential | Sill plates                    |

### PA3500 SELECTION GUIDE

| CAT. NO.                                                                         | DESCRIPTION                       | STD. CTN. |
|----------------------------------------------------------------------------------|-----------------------------------|-----------|
| 52019                                                                            | PA3500 Powder Tool (Deluxe Kit)   | 1         |
| 52025                                                                            | PA3500 Powder Tool (Blister Pack) | 1         |
| 52103                                                                            | PA Piston Flat End with Ring      | 1         |
| 52108                                                                            | Guide 2/F-3                       | 1         |
| 52110                                                                            | Base Plate 2/S-13                 | 1         |
| 52112                                                                            | Piston Stop                       | 1         |
| 52120                                                                            | Shear Clip                        | 1         |
| 52122                                                                            | Steel Annular Ball                | 1         |
| FOR APPLICATIONS IN TIGHT AREAS, A LIMITED ACCESS BASE PLATE/GUIDE IS AVAILABLE. |                                   |           |
| 52114                                                                            | Guide 2/F-4 Limited Access        | 1         |
| 52116                                                                            | Baseplate 2/F-14-1 Limited Access | 1         |

### POLE TOOLS FOR OVERHEAD ATTACHMENTS

| CAT. NO. | DESCRIPTION               | STD. CTN. |
|----------|---------------------------|-----------|
| 50065    | 6' Di-Electric Pole Tool  | 1         |
| 50066    | 8' Di-Electric Pole Tool  | 1         |
| 52041    | 6' Smacker Pole Tool      | 1         |
| 52045    | 3' Smacker Pole Extension | 1         |

**Tool Operation:** Powder actuated tools may be used only by properly trained and licensed operators as described in ANSI Standard A 10.3. For complete tool operation details, completely review the tool manual and contact your local Powers branch office or distributor for training.



## P3801

### SIZE RANGE

1/4" to 3/8" threaded studs and 3/8" headed drive pins, .27 caliber

Powerful heavy-duty powder actuated tool, for installing 3/8" threaded studs into concrete and steel. This tool features an easy load ejector and has a low re-coil for greater operator comfort. The P3801 is independent of any external power source saving you time and money.

### TECHNICAL DATA

| TOOL BODY                                              | PIN LENGTH                 |
|--------------------------------------------------------|----------------------------|
| Precision Cast Aluminum                                | 1/2" to 3" Total Length    |
| TOOL LENGTH                                            | LOAD TYPE                  |
| 14"                                                    | .27 Caliber Short and Long |
| TOOL WEIGHT                                            | POWER LEVEL                |
| 7 lbs.                                                 | Red (5), Purple (6)        |
| PIN TYPE                                               |                            |
| 1/4" to 3/8" Threaded Studs and 3/8" Headed Drive Pins |                            |

### TYPICAL APPLICATIONS

Hanging sprinkler pipe      Heavy duty applications for steel and concrete  
Electrical      Tele-communications

### P3801 SELECTION GUIDE

| CAT. NO. | DESCRIPTION             | STD. CTN. |
|----------|-------------------------|-----------|
| 52008    | P3801 Tool (Deluxe Kit) | 1         |
| 52402    | Nose Piece              | 1         |
| 52404    | Base Plate              | 1         |
| 52415    | Shield 1/4"             | 1         |
| 52417    | Shield 3/8"             | 1         |
| 52420    | Piston Guide 1/4"       | 1         |
| 52422    | Piston Guide 3/8"       | 1         |
| 52426    | Piston w/Ring 1/4"      | 1         |
| 52428    | Piston w/Ring 3/8"      | 1         |

**Tool Operation:** Powder actuated tools may be used only by properly trained and licensed operators as described in ANSI Standard A 10.3. For complete tool operation details, completely review the tool manual and contact your local Powers branch office or distributor for training.



**P3600**

SIZE RANGE  
1" to 3" 10mm head pins, 3/8" threaded studs, 3/8" headed drive pins, .27 caliber strip

The P3600 is a powerful, heavy-duty low velocity, semi-automatic .27 caliber tool which can be used to install 10mm head drive pins, 3/8" threaded studs, and 3/8" headed drive pins. The P3600 is designed for applications where more power is needed, such as attaching 2x4s to hard aggregate or steel. The tool utilizes a red or purple .27 caliber strip.

| TECHNICAL DATA                                              |                                |
|-------------------------------------------------------------|--------------------------------|
| TOOL BODY                                                   | PIN LENGTH                     |
| Precision Cast Aluminum                                     | 1/2" to 3" Total Length        |
| TOOL LENGTH                                                 | LOAD TYPE                      |
| 13-5/8"                                                     | .27 Caliber in a 10 Load Strip |
| TOOL WEIGHT                                                 | POWER LEVEL                    |
| 5 lbs.                                                      | Red (5), Purple (6)            |
| PIN TYPE                                                    |                                |
| 10mm Head Pins, 3/8" Threaded Studs, 3/8" Headed Drive Pins |                                |

| TYPICAL APPLICATIONS                           |                        |
|------------------------------------------------|------------------------|
| 2x4s to concrete or steel                      | Hanging sprinkler pipe |
| Heavy-duty applications for steel and concrete | Tele-communications    |
| Concrete forms, basket clips, forming pins     | Sill plates            |

| P3600 SELECTION GUIDE |                                |           |
|-----------------------|--------------------------------|-----------|
| CAT. NO.              | DESCRIPTION                    | STD. CTN. |
| 52010                 | P3600 Powder Tool (Deluxe Kit) | 1         |
| 52510                 | Nose Piece                     | 1         |
| 52512                 | Piston Reset Pin               | 1         |
| 52522                 | Piston                         | 1         |
| 52578                 | Piston w/Ring                  | 1         |
| 52041                 | 6' Smacker Pole Tool           | 1         |
| 52045                 | 3' Smacker Pole Extension      | 1         |

**Tool Operation:** Powder actuated tools may be used only by properly trained and licensed operators as described in ANSI Standard A 10.3. For complete tool operation details, completely review the tool manual and contact your local Powers branch office or distributor for training.

**PA351**

SIZE RANGE  
5/8" to 1-5/8" 10 fastener magazine, .27 caliber strip

Lightweight, fully automatic powder actuated tool with 10 fastener magazine for high volume applications. This tool fastens up to 700 nails per hour for increased productivity. Easy drop in magazine for one handed operation. A power adjuster provides variable power choices and drives a wide variety of fasteners.

| POWER ADJUSTER SETTINGS |                  |                   |
|-------------------------|------------------|-------------------|
| 1 - Minimum Power       | 3 - Medium Power | 6 - Maximum Power |

| TECHNICAL DATA                                            |                                           |
|-----------------------------------------------------------|-------------------------------------------|
| TOOL BODY                                                 | PIN LENGTH                                |
| Engineered Plastic                                        | 5/8" to 1-5/8" Total Length               |
| TOOL LENGTH                                               | LOAD TYPE                                 |
| 17"                                                       | .27 Caliber in a 10 Load Strip            |
| TOOL WEIGHT                                               | POWER LEVEL                               |
| 8 lbs.                                                    | Brown (2), Green (3), Yellow (4), Red (5) |
| PIN TYPE                                                  |                                           |
| 10 fastener magazine Can be converted to single shot tool |                                           |

| TYPICAL APPLICATIONS |                                            |
|----------------------|--------------------------------------------|
| TRADE                | APPLICATION                                |
| Acoustical           | Ceiling clip assemblies                    |
| Drywall              | Metal track, door frames                   |
| Forming              | Concrete forms, basket clips, forming pins |
| Electrical           | Boxes, conduit clip assemblies             |
| Mechanical           | Duct straps                                |
| Residential          | Sill plates                                |

| PA351 SELECTION GUIDE |                         |          |
|-----------------------|-------------------------|----------|
| CAT. NO.              | DESCRIPTION             | STD. BOX |
| 50266                 | PA351 Tool (Deluxe Kit) | 1        |
| 52133                 | PA351 Piston w/Ring     | 1        |
| 52135                 | Guide 2/F-3             | 1        |
| 52137                 | Base Plate 2/S-13       | 1        |
| 52141                 | Magazine                | 1        |

**Tool Operation:** Powder actuated tools may be used only by properly trained and licensed operators as described in ANSI Standard A 10.3. For complete tool operation details, completely review the tool manual and contact your local Powers branch office or distributor for training.



## P60

### SIZE RANGE

1/2" to 2-3/8" pin lengths, .25 caliber disk

Low velocity powder actuated tool that uses .25 caliber, 10 shot circular disc load and is specifically designed for .300 head pin applications into concrete or steel. Shoots a 2-3/8" pin, 2-1/2" pin with washer or threaded stud 1/4-20 up to 1".

### TECHNICAL DATA

| TOOL BODY          | PIN LENGTH                       |
|--------------------|----------------------------------|
| Engineered Plastic | 2-3/8" Total Length              |
| TOOL LENGTH        | LOAD TYPE                        |
| 12-1/4"            | .25 Caliber in a 10 Load Disk    |
| TOOL WEIGHT        | POWER LEVEL                      |
| 4.8 lbs.           | Brown (2), Green (3), Yellow (4) |
| PIN TYPE           |                                  |
| Single Shot        |                                  |

### TYPICAL APPLICATIONS

| TRADE       | APPLICATION                                |
|-------------|--------------------------------------------|
| Acoustical  | Ceiling clip assemblies                    |
| Drywall     | Metal track, door frames                   |
| Forming     | Concrete forms, basket clips, forming pins |
| Electrical  | Boxes, conduit clip assemblies             |
| Mechanical  | Duct straps                                |
| Residential | Sill plates                                |

### P60 SELECTION GUIDE

| CAT. NO. | DESCRIPTION        | STD. BOX |
|----------|--------------------|----------|
| 52057    | P60 Power Tool Kit | 1        |

**Tool Operation:** Powder actuated tools may be used only by properly trained and licensed operators as described in ANSI Standard A 10.3. For complete tool operation details, completely review the tool manual and contact your local Powers branch office or distributor for training.



## Sniper™ Pole Tool

### SIZE RANGE

1/2" to 1-1/2" pin lengths, .27 caliber strip

Ideally suited to installing overhead ceiling clips with a 1-1/2" pin. Features Safety Sequence Strip Loading, allowing load advancements only after the pin has been installed in the nose piece, and the handle must be clicked to advance the next load.

### TECHNICAL DATA

| TOOL BODY                                                          | PIN LENGTH                                |
|--------------------------------------------------------------------|-------------------------------------------|
| Precision Cast Aluminum                                            | 1-1/2" Total Length                       |
| TOOL LENGTH                                                        | LOAD TYPE                                 |
| 17"                                                                | .27 Caliber in a 10 Load Strip            |
| TOOL WEIGHT                                                        | POWER LEVEL                               |
| 8 lbs.                                                             | Brown (2), Green (3), Yellow (4), Red (5) |
| PIN TYPE                                                           |                                           |
| .300 Head Drive Pin, 8mm Head Drive Pin, Ballistic Point Drive Pin |                                           |

### TYPICAL APPLICATIONS

| TRADE       | APPLICATION                                |
|-------------|--------------------------------------------|
| Acoustical  | Ceiling clip assemblies                    |
| Drywall     | Metal track, door frames                   |
| Forming     | Concrete forms, basket clips, forming pins |
| Electrical  | Boxes, conduit clip assemblies             |
| Mechanical  | Duct straps                                |
| Residential | Sill plates                                |

### SNIPER SELECTION GUIDE

| CAT. NO. | DESCRIPTION             | STD. BOX |
|----------|-------------------------|----------|
| 52051    | Sniper Tool (Bump Tool) | 1        |
| 52053    | 6' Pole                 | 1        |
| 52061    | 8' Pole                 | 1        |

**Tool Operation:** Powder actuated tools may be used only by properly trained and licensed operators as described in ANSI Standard A 10.3. For complete tool operation details, completely review the tool manual and contact your local Powers branch office or distributor for training.

## Powder Loads

Specific load types are designed for each unique powder actuated tool. They are offered as single units for single shot tools and collated in groups of 10 into plastic strips or metal discs for semi-automatic tools.



### .22 CALIBER "A" LOW VELOCITY LOADS

FOR POWERS P7200, P2200, RAMSET® 721 AND M70, HILTI® DXE37 AND DXE72

| CAT. NO. | DESCRIPTION  | STD. BOX | STD. CTN. | MASTER CTN. |
|----------|--------------|----------|-----------|-------------|
| 50500    | Gray, .22A   | 100      | 5000      | -           |
| 50502    | Brown, .22A  | 100      | 5000      | 240,000     |
| 50504    | Green, .22A  | 100      | 5000      | 240,000     |
| 50506    | Yellow, .22A | 100      | 5000      | 240,000     |



### .22 CALIBER LOADS

FOR LADD CEILING MASTER TOOL (L1600)

| CAT. NO. | DESCRIPTION   | STD. BOX | STD. CTN. | MASTER CTN. |
|----------|---------------|----------|-----------|-------------|
| 50518*   | Red - Ladd    | 100      | 5000      | 240,000     |
| 50520    | Purple - Ladd | 100      | 5000      | -           |

\* Discontinued item once current stock exhausted.



### .25 CALIBER DISK LOADS

FOR RAMSET® D45, D60, D60L

| CAT. NO. | DESCRIPTION      | STD. BOX | STD. CTN. | MASTER CTN. |
|----------|------------------|----------|-----------|-------------|
| 50530*   | Gray, .25 disk   | 100      | 1000      | 80,000      |
| 50532    | Brown, .25 disk  | 100      | 1000      | 80,000      |
| 50534    | Green, .25 disk  | 100      | 1000      | 80,000      |
| 50536    | Yellow, .25 disk | 100      | 1000      | 80,000      |

\* Discontinued item once current stock exhausted.

### .25 CALIBER RED DISK LOADS

FOR RAMSET® MODEL D45

| CAT. NO. | DESCRIPTION   | STD. BOX | STD. CTN. | MASTER CTN. |
|----------|---------------|----------|-----------|-------------|
| 50538    | Red, .25 disk | 100      | 1000      | 80,000      |



### .25 CALIBER SINGLE LOADS

FOR HILTI® DX100, DX200

| CAT. NO. | DESCRIPTION        | STD. BOX | STD. CTN. | MASTER CTN. |
|----------|--------------------|----------|-----------|-------------|
| 50560*   | Green, .25 single  | 100      | 5000      | -           |
| 50562*   | Yellow, .25 single | 100      | 5000      | -           |
| 50564*   | Red, .25 single    | 100      | 5000      | -           |
| 50566*   | Purple, .25 single | 100      | 5000      | -           |

\* Discontinued item once current stock exhausted.



### .27 CALIBER SINGLE LOADS

FOR POWERS P3801 AND HILTI® DX400

| CAT. NO. | DESCRIPTION        | STD. BOX | STD. CTN. | MASTER CTN. |
|----------|--------------------|----------|-----------|-------------|
| 50582*   | Brown, .27 single  | 100      | 5000      | -           |
| 50584*   | Green, .27 single  | 100      | 5000      | -           |
| 50590*   | Purple, .27 single | 100      | 5000      | -           |

\* Discontinued item once current stock exhausted.



### .27 CALIBER LONG LOADS

FOR POWERS P3801, RAMSET® MD380 AND HILTI® DX600N

| CAT. NO. | DESCRIPTION      | STD. BOX | STD. CTN. | MASTER CTN. |
|----------|------------------|----------|-----------|-------------|
| 50612    | Red, .27 long    | 100      | 2500      | 100,000     |
| 50614    | Purple, .27 long | 100      | 2500      | 100,000     |



### .25 CALIBER 10 LOAD STRIPS

FOR POWERS P355 AND HILTI® DX35

| CAT. NO. | DESCRIPTION       | STD. BOX | STD. CTN. | MASTER CTN. |
|----------|-------------------|----------|-----------|-------------|
| 50570    | Green, .25 strip  | 100      | 1000      | 20,000      |
| 50574    | Yellow, .25 strip | 100      | 1000      | 20,000      |
| 50578    | Red, .25 strip    | 100      | 1000      | 20,000      |

### MASTER PACK

| CAT. NO. | DESCRIPTION       | STD. BOX | STD. CTN. | MASTER CTN. |
|----------|-------------------|----------|-----------|-------------|
| 50572    | Green, .25 strip  | 1000     | 20000     | -           |
| 50576    | Yellow, .25 strip | 1000     | 20000     | -           |
| 50580    | Red, .25 strip    | 1000     | 20000     | -           |



### .27 CALIBER 10 LOAD STRIPS

MASTER PACK

| CAT. NO. | DESCRIPTION       | STD. BOX | STD. CTN. | MASTER CTN. |
|----------|-------------------|----------|-----------|-------------|
| 50596*   | Green, .27 strip  | 1000     | 20000     | -           |
| 50600*   | Yellow, .27 strip | 1000     | 20000     | -           |

\* Discontinued item once current stock exhausted.



### .27 CALIBER 10 LOAD STRIPS

FOR HILTI® MODEL DX451

| CAT. NO. | DESCRIPTION       | STD. BOX | STD. CTN. | MASTER CTN. |
|----------|-------------------|----------|-----------|-------------|
| 50606    | Purple, .27 strip | 100      | 1000      | 20,000      |



## Safety Strip®

The safety strip is molded in a special length to provide a visual indication that the tool is loaded.

### .27 CALIBER SAFETY STRIP LOADS

FOR POWERS P3500, PA3500, PA351, P3600, RAMSET® SA270, VIPER, HILTI® DX350, DX36M, DX451 AND DX460

| CAT. NO. | DESCRIPTION              | STD. BOX | STD. CTN. |
|----------|--------------------------|----------|-----------|
| 50620    | Brown, .27 safety strip  | 100      | 1000      |
| 50622    | Green, .27 safety strip  | 100      | 1000      |
| 50626    | Yellow, .27 safety strip | 100      | 1000      |
| 50630    | Red, .27 Safety Strip    | 100      | 1000      |

### MASTER PACK

| CAT. NO. | DESCRIPTION              | STD. BOX | MASTER CTN. |
|----------|--------------------------|----------|-------------|
| 50624    | Green, .27 safety strip  | 1000     | 10,000      |
| 50628    | Yellow, .27 safety strip | 1000     | 10,000      |
| 50632    | Red, .27 safety strip    | 1000     | 10,000      |

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|                 | Page                                                               | Dimensions |                 | Base Material               |                                           |                      |                                    |                             |                          |                         |               |                              |                |               | Code Recognition |                     |                   |                                              |
|-----------------|--------------------------------------------------------------------|------------|-----------------|-----------------------------|-------------------------------------------|----------------------|------------------------------------|-----------------------------|--------------------------|-------------------------|---------------|------------------------------|----------------|---------------|------------------|---------------------|-------------------|----------------------------------------------|
|                 |                                                                    | Diameter   | Length          | Concrete                    | High Strength / Concrete Precast Concrete | Lightweight Concrete | Lightweight Concrete On Metal Deck | Wood Sill Plate to Concrete | Grouted Concrete Masonry | Hollow Concrete Masonry | Brick Masonry | Plywood to Light Gauge Steel | A36/A572 Steel | Wood to Steel |                  | Stick-E Accessories |                   |                                              |
| Trak-It C3 Pins | 1/2" Steel Pins (Step Shank w Rolled Point)                        | 56         | 0.120" : 0.102" | 1/2"                        |                                           |                      |                                    |                             |                          |                         |               |                              |                |               |                  |                     |                   | Code Listed<br>ICC-ES ESR-2036<br>LARR-25523 |
|                 | Standard Pins (Smooth Shank w Rolled Point)                        | 56         | 0.102"          | 3/4" : 1" : 1-1/4" : 1-1/2" | ●                                         |                      | ●                                  | ●                           |                          | ●                       | ●             | ○                            |                |               |                  |                     |                   | Code Listed<br>ICC-ES ESR-2036<br>LARR-25523 |
|                 | Standard Pins w Break-free Collation (Smooth Shank w Rolled Point) | 56         | 0.102"          | 3/4" : 1-1/4" : 1-1/2"      | ●                                         |                      | ●                                  | ●                           |                          | ●                       | ●             | ○                            |                |               |                  |                     |                   | Code Listed<br>ICC-ES ESR-2036<br>LARR-25523 |
|                 | Plywood to Steel Pins (Spiral Knurl Shank w Rolled Point)          | 56         | 0.102"          | 1-3/8"                      |                                           |                      |                                    |                             |                          |                         |               | ●                            |                |               |                  |                     | Denz-Glass Washer |                                              |
|                 | Bullseye Pins (Step Shank w Rolled Point)                          | 56         | 0.120" : 0.102" | 1-1/16" : 3/4" : 1"         |                                           | ●                    |                                    |                             |                          |                         |               |                              |                |               |                  |                     |                   |                                              |
|                 | Stick-E Pins (Step Shank)                                          | 56         | 0.102" : 0.088" | 0.780" : 1"                 | ●                                         | ○                    | ●                                  | ●                           |                          | ●                       | ●             | ○                            |                |               |                  |                     |                   | ●                                            |
| Trak-It C4 Pins | 1/2" Steel Pins (Step Shank w Rolled Point)                        | 56         | 0.102"          | 1/2"                        |                                           |                      |                                    |                             |                          |                         |               |                              |                |               | ●                |                     | ●                 | Code Listed<br>ICC-ES ESR-2249<br>LARR-25856 |
|                 | Standard Pins (Smooth Shank w Rolled Point)                        | 56         | 0.145"          | 3/4" : 1"                   | ●                                         | ○                    | ●                                  | ●                           |                          | ○                       | ○             |                              |                |               |                  |                     |                   | Code Listed<br>ICC-ES ESR-2249<br>LARR-25856 |
|                 | Standard Pins w Break-free Collation (Smooth Shank w Rolled Point) | 56         | 0.145"          | 1 : 1-1/4" : 2"             | ●                                         |                      | ●                                  | ●                           |                          | ○                       |               |                              |                |               | ●                |                     |                   | Code Listed<br>ICC-ES ESR-2249<br>LARR-25856 |
|                 | Wood to Concrete Taper Pins                                        | 56         | 0.137"          | 2-9/16"                     | ●                                         |                      | ●                                  |                             | ●                        | ●                       | ○             |                              |                |               |                  |                     |                   | Code Listed<br>ICC-ES ESR-2249<br>LARR-25856 |
|                 | Plywood to Steel Pins (Spiral Knurl Shank w Rolled Point)          | 56         | 0.120"          | 0.500" : 0.680" : 0.730"    |                                           |                      |                                    |                             |                          |                         |               |                              |                |               | ●                |                     |                   |                                              |
|                 | Bullseye Pins (Step Shank w Rolled Point)                          | 56         | 0.120" : 0.102" | 0.500" : 0.680" : 0.730"    | ●                                         | ●                    |                                    |                             |                          |                         | ○             | ○                            |                |               |                  |                     |                   |                                              |
| Trak-It C5 Pins | Straight Pins (Smooth Shank)                                       | 55         | 0.102"          | 3/4" : 1" : 1-1/4" : 1-1/2" | ●                                         |                      | ●                                  | ●                           |                          | ○                       | ○             | ○                            |                |               |                  |                     | ●                 | Code Listed<br>ICC-ES ESR-3275<br>LARR-25920 |
|                 | Straight Pins (Smooth Shank)                                       | 55         | 0.145"          | 3/4" : 1"                   | ●                                         | ○                    | ●                                  | ●                           |                          | ○                       | ○             |                              |                |               | ●                |                     |                   | Code Listed<br>ICC-ES ESR-3275<br>LARR-25920 |
|                 | Steel Pins                                                         | 55         | 0.120"          | 0.500" : 0.680" : 0.730"    |                                           |                      |                                    |                             |                          |                         |               |                              |                |               |                  |                     |                   | Code Listed<br>ICC-ES ESR-3275<br>LARR-25920 |
|                 | Step Shank Pins                                                    | 55         | 0.145" : 0.102" | 1-1/4" : 1-1/2"             | ●                                         | ●                    |                                    |                             |                          | ○                       | ○             |                              |                |               |                  |                     |                   | Code Listed<br>ICC-ES ESR-3275<br>LARR-25920 |
|                 | ACQ Coated Step Shank Pins                                         | 55         | 0.145" : 0.120" | 1" : 1-1/4"                 | ●                                         | ●                    | ○                                  |                             |                          | ○                       | ○             | ○                            |                |               | ●                |                     |                   |                                              |
|                 | Stick-E Pins (Step Shank)                                          | 55         | 0.120" : 0.088" | 0.780"                      | ●                                         | ○                    | ●                                  | ●                           |                          | ●                       | ●             | ○                            |                |               |                  |                     |                   | ●                                            |
|                 | Plywood to Steel Pins (Special Knurl Shank with Rolled Point)      | 55         | 0.102"          | 1-3/8"                      |                                           |                      |                                    |                             |                          |                         |               |                              |                |               | ●                |                     | Denz-Glass Washer |                                              |

- Suitable
- May be Suitable

## Trak-It® C5

Gas Fastening System

BASE MATERIALS

Concrete, Lightweight Concrete, Hollow and Grouted CMU, Masonry & Steel

The all new fuel injected Trak-It C5 cordless concrete pin nailer is the lightest and smallest tool in its class, resulting in less operator fatigue and a better overall ergonomic feel. C5 has the greatest power output at 105 Joules, which allows for shooting into even the hardest concrete, able to shoot pins up to 1-1/2" in length, and is the only tool in its class that shoots .102, .108, .120 and .145 diameter pins. No other tool can make this claim!



### TRAK-IT C5 TOOL

| CAT. NO. | DESCRIPTION                    | STD. BOX | STD. CTN. |
|----------|--------------------------------|----------|-----------|
| 55142    | C-5 Gas Tool Deep Track (1.25) | 1        | -         |
| 55144    | C-5 Gas Tool Short Track (1.5) | 1        | -         |
| 55148    | C-5 Gas Tool Long Track (1.5)  | 1        | -         |

### TOOL ACCESSORIES

| CAT. NO. | DESCRIPTION                 | STD. BOX | STD. CTN. |
|----------|-----------------------------|----------|-----------|
| 56342    | Accessory DT (1.25)         | 1        | -         |
| 55583    | Battery                     | 1        | -         |
| 56346    | Accessory Short Track (1.5) | 1        | -         |
| 56344    | Accessory Long Track (1.5)  | 1        | -         |

Note: A short track tool for 1.5" pins which does not shoot deep track can be ordered under part number 55144 Note: A long track tool for 1.5" pins which does not shoot deep track can be ordered under part number 55148



### FUEL CELLS

| CAT. NO. | DESCRIPTION | STD. BOX | STD. CTN. |
|----------|-------------|----------|-----------|
| 55302    | Fuel Cell   | 20       | 80        |
| 55301    | 100 per box | 100      | -         |

## Trak-It® C3/C4

Gas Fastening System

BASE MATERIALS

Concrete, Lightweight Concrete, Hollow and Grouted CMU, Masonry & Steel

Trak-It is a gas-powered fastening system used for light-duty static applications, including drywall track to concrete, block or steel, lath to concrete or block, furring strips to concrete or block, and plywood to concrete or block base materials. The high performance system is designed for speed, efficiency and consistency. A fuel cell contains enough gas to install up to 800 fasteners depending on the tool. Operation of a gas powered fastening system does not require special safety training or licensing.



### CITY OF LOS ANGELES

LARR-25787 (Concrete)

### TRAK-IT C3 / C4 TOOLS

| CAT. NO. | DESCRIPTION   | STD. BOX | STD. CTN. |
|----------|---------------|----------|-----------|
| 55011    | C3 Trak-It    | 1        | 1         |
| 55002    | C3-ST Trak-It | 1        | 1         |
| 55112    | C4 Trak-It    | 1        | 1         |

Tool comes with case, charger and two batteries.



### TRAK-IT POLE TOOLS

| CAT. NO. | DESCRIPTION                             | STD. BOX | STD. CTN. |
|----------|-----------------------------------------|----------|-----------|
| 55049    | 6' Pole Tool and one Trak-It C3-ST Tool | 1        | 1         |
| 55051    | 8' Pole Tool and one Trak-It C3-ST Tool | 1        | 1         |
| 55053    | 6' Pole Tool for Trak-It C3             | 1        | 1         |
| 55055    | 8' Pole Tool for Trak-It C3             | 1        | 1         |

## Trak-It® C4 EX

Gas Fastening System

BASE MATERIALS

Concrete, Lightweight Concrete, Hollow and Grouted CMU, Masonry & Steel



Trak-It C4 EX is a gas-powered fastening system used for light-duty static applications including drywall track to concrete, block or steel, wire lath to concrete or block, furring strips to concrete or block and plywood to concrete and block base materials.

This high performance tool gives the same quality and performance

as what you are accustomed to in the C4 model but with an additional 20% more power. It's specifically designed for high speed and consistency. One fuel cell shoots 800 fasteners. One major advantage over Powder actuated tools is that you do not require an operator's license.

| C4 EX HIGH PERFORMANCE TOOL |             |          |           |
|-----------------------------|-------------|----------|-----------|
| CAT. NO.                    | DESCRIPTION | STD. BOX | STD. CTN. |
| 55127                       | C4 EX       | 1        | 1         |



| TRAK-IT C3 & C4 FUEL CELLS |                      |          |           |
|----------------------------|----------------------|----------|-----------|
| CAT. NO.                   | DESCRIPTION          | STD. BOX | STD. CTN. |
| 55010                      | Trak-It C3 Fuel Cell | 20       | 80        |
| 55115                      | Trak-It C4 Fuel Cell | 12       | 72        |

Works in temperatures down to 10°F.



| TRAK-IT ACCESSORIES |                                                 |          |           |
|---------------------|-------------------------------------------------|----------|-----------|
| CAT. NO.            | DESCRIPTION                                     | STD. BOX | STD. CTN. |
| 55618               | Replacement Trak-It Charger Base                | 1        | 1         |
| 55619               | Replacement Trak-It Charger Adapter Cord (110V) | 1        | 1         |
| 55583               | Extra Battery for Trak-It Tool                  | 1        | 1         |

**CODE LISTED**  
ICC-ES ESR-3275

**CITY OF LOS ANGELES**  
LARR-25920 (Concrete)



**New!**

| STANDARD 0.102 STRAIGHT PINS |            |        |           |       |               |          |           |
|------------------------------|------------|--------|-----------|-------|---------------|----------|-----------|
| CAT. NO.                     | SHANK DIA. | LENGTH | STEP DIA. | PLATE | KNURL/ SPIRAL | STD. BOX | STD. CTN. |
| 55310                        | 0.102"     | 3/4"   | -         | Zinc  | -             | 800      | 4,000     |
| 55312                        | 0.102"     | 1"     | -         | Zinc  | -             | 800      | 4,000     |
| 55314                        | 0.102"     | 1-1/4" | -         | Zinc  | -             | 800      | 4,000     |
| 55316                        | 0.102"     | 1-1/2" | -         | Zinc  | -             | 800      | 4,000     |



**New!**

| STANDARD 0.145 STRAIGHT PINS |            |        |           |       |               |          |           |
|------------------------------|------------|--------|-----------|-------|---------------|----------|-----------|
| CAT. NO.                     | SHANK DIA. | LENGTH | STEP DIA. | PLATE | KNURL/ SPIRAL | STD. BOX | STD. CTN. |
| 55318                        | 0.145"     | 3/4"   | -         | Zinc  | -             | 800      | 4,000     |
| 55320                        | 0.145"     | 1"     | -         | Zinc  | -             | 800      | 4,000     |



**New!**

| CONCRETE AND STEEL PINS STRUCTURAL |            |        |           |       |               |          |           |
|------------------------------------|------------|--------|-----------|-------|---------------|----------|-----------|
| CAT. NO.                           | SHANK DIA. | LENGTH | STEP DIA. | PLATE | KNURL/ SPIRAL | STD. BOX | STD. CTN. |
| 55336                              | 0.145"     | 1"     | 0.120"    | Zinc  | K             | 800      | 4,000     |
| 55338                              | 0.145"     | 1-1/4" | 0.120"    | Zinc  | K             | 800      | 4,000     |
| 55322                              | 0.145"     | 1-1/4" | 0.102"    | Zinc  | -             | 800      | 4,000     |
| 55324                              | 0.145"     | 1-1/2" | 0.102"    | Zinc  | -             | 800      | 4,000     |



**New!**

| SPECIALTY TAPERED SHORT PINS |            |        |           |       |               |          |           |
|------------------------------|------------|--------|-----------|-------|---------------|----------|-----------|
| CAT. NO.                     | SHANK DIA. | LENGTH | STEP DIA. | PLATE | KNURL/ SPIRAL | STD. BOX | STD. CTN. |
| 55326                        | 0.120"     | 1/2"   | 0.102"    | Zinc  | K             | 800      | 4,000     |
| 55328                        | 0.120"     | 0.680" | 0.102"    | Zinc  | K             | 800      | 4,000     |
| 55330                        | 0.120"     | 0.730" | 0.102"    | Zinc  | K             | 800      | 4,000     |
| 55342                        | 0.102"     | 0.780" | 0.088"    | Zinc  | K             | 800      | 4,000     |



| SPECIALTY SPIRAL KNURL PIN |            |        |           |       |               |          |           |
|----------------------------|------------|--------|-----------|-------|---------------|----------|-----------|
| CAT. NO.                   | SHANK DIA. | LENGTH | STEP DIA. | PLATE | KNURL/ SPIRAL | STD. BOX | STD. CTN. |
| 55340                      | 0.108"     | 1 3/8" | 0.102"    | Zinc  | KS            | 800      | 4,000     |

| PRESSURE TREATED LUMBER PIN |            |        |           |       |               |          |           |
|-----------------------------|------------|--------|-----------|-------|---------------|----------|-----------|
| CAT. NO.                    | SHANK DIA. | LENGTH | STEP DIA. | PLATE | KNURL/ SPIRAL | STD. BOX | STD. CTN. |
| 55332                       | 0.145"     | 1"     | 0.120"    | ACQ   | K             | 800      | 4,000     |
| 55334                       | 0.145"     | 1-1/4" | 0.120"    | ACQ   | K             | 800      | 4,000     |



| 1/2" STEEL PIN (STEP SHANK WITH ROLLED POINT) |                |             |          |           |
|-----------------------------------------------|----------------|-------------|----------|-----------|
| CAT. NO.                                      | DESCRIPTION    | SHANK DIA.  | STD. BOX | STD. CTN. |
| 55020                                         | 1/2" Steel Pin | 0.120/0.102 | 1000     | 5000      |

Designed for use in A36 and A572 steel beams, purlins, and bar joist. Each box of pins come packaged with one fuel cell.



**STANDARD PINS (SMOOTH SHANK WITH ROLLED POINT) C3**

| CAT. NO. | DESCRIPTION | SHANK DIA. | STD. BOX | STD. CTN. |
|----------|-------------|------------|----------|-----------|
| 55022B   | 3/4" Black  | 0.102      | 1000     | 5000      |
| 55024    | 1" Zinc     | 0.102      | 1000     | 5000      |
| 55026    | 1-1/4" Zinc | 0.102      | 1000     | 5000      |
| 55028    | 1-1/2" Zinc | 0.102      | 1000     | 5000      |

Designed for use in concrete and masonry. All pins are zinc plated for a minimum level of corrosion resistance. Each box of pins come packaged with one fuel cell.



**STANDARD PINS WITH BREAK-FREE COLLATION (SMOOTH SHANK WITH ROLLED POINT) C3**

| CAT. NO. | DESCRIPTION | SHANK DIA. | STD. BOX | STD. CTN. |
|----------|-------------|------------|----------|-----------|
| 55032    | 3/4" Zinc   | 0.102"     | 1000     | 5000      |
| 55033    | 1" Zinc     | 0.102"     | 1000     | 5000      |
| 55034    | 1-1/4" Zinc | 0.102"     | 1000     | 5000      |
| 55035    | 1-1/2" Zinc | 0.102"     | 1000     | 5000      |

Designed for use in concrete and masonry. All pins are zinc plated or coated with black oxide for a minimum level of corrosion resistance. Plastic collation breaks completely free of pin during installation. Each box of pins come packaged with one fuel cell.



**PLYWOOD TO STEEL PINS (SPIRAL SHANK WITH ROLLED POINT) C3**

| CAT. NO. | DESCRIPTION | SHANK DIA. | STD. BOX | STD. CTN. |
|----------|-------------|------------|----------|-----------|
| 55036    | 1-3/8" Zinc | 0.102"     | 1000     | 5000      |

Designed for use to attach plywood to light gage steel framing. Each box of pins come packaged with one fuel cell.



**BULLSEYE PINS (STEP SHANK WITH ROLLED POINT) C3**

| CAT. NO. | DESCRIPTION        | SHANK DIA. | STD. BOX | STD. CTN. |
|----------|--------------------|------------|----------|-----------|
| 55085    | 680 Step Shank Pin | 0.102"     | 1000     | 5000      |
| 55087    | 730 Step Shank Pin | 0.102"     | 1000     | 5000      |
| 55080    | 780 Step Shank Pin | 0.102"     | 1000     | 5000      |

Designed for use in hard aggregate and precast concrete. Each box of pins come packaged with one fuel cell.

**CODE LISTED**  
ICC-ES ESR-2249



**CITY OF LOS ANGELES**  
LARR-25856 (Concrete)



55111



55171

**TRAK-IT C4 PINS AND WASHERS C4**

| CAT. NO. | DESCRIPTION                                                   | SHANK DIA. | STD. BOX | STD. CTN. |
|----------|---------------------------------------------------------------|------------|----------|-----------|
| 55111    | 3/4" Pin                                                      | 0.102"     | 800      | 4000      |
| 55130    | 3/4" Pin                                                      | 0.145"     | 800      | 4000      |
| 55113    | 1" Pin                                                        | 0.102"     | 800      | 4000      |
| 55132    | 1" Pin                                                        | 0.145"     | 800      | 4000      |
| 55134    | 1-1/4" Step Shank Pin                                         | 0.145"     | 800      | 4000      |
| 55136    | 1-1/2" Step Shank Pin                                         | 0.145"     | 800      | 4000      |
| 55141    | 1-7/8" Step Shank Pin, Knurled                                | 0.145"     | 800      | 4000      |
| 55124    | 2-1/4" Pin                                                    | 0.102"     | 800      | 4000      |
| 55138    | 2-3/8" Step Shank Pin                                         | 0.145"     | 800      | 4000      |
| 55128    | 2-1/2" Pin                                                    | 0.102"     | 800      | 4000      |
| 55140    | 2-1/2" Step Shank Pin                                         | 0.145"     | 800      | 4000      |
| 55145    | 2-9/16" Pin (Mechanically Galvanized)                         | 0.137"     | 800      | 4000      |
| 55147    | 2-9/16" Pin with Washer (Mechanically Galvanized) [See below] | 0.137"     | 800      | 1600      |
| 55161    | .500 Pin, Knurled                                             | 0.102"     | 800      | 4000      |
| 55163    | .680 Pin, Knurled                                             | 0.102"     | 800      | 4000      |
| 55165    | .730 Pin, Knurled                                             | 0.120"     | 800      | 4000      |
| 55149    | 1" Square Stick-E Washer                                      | 0.137"     | 800      | 4000      |
| 55116    | 1-1/4" C4 Pin                                                 | 0.102"     | 800      | 4000      |
| 55118    | 1-1/2" C4 Pin                                                 | 0.102"     | 800      | 4000      |
| 55139    | 2-1/4" Step Shank Pin                                         | 0.145"     | 800      | 4000      |
| 55172    | 1" Wood/Steel Knurled                                         | 0.145"     | 800      | 4000      |
| 55173    | 1-1/4" Wood/Steel Knurled                                     | 0.145"     | 800      | 4000      |
| 55174    | 2" Wood/Steel Knurled                                         | 0.145"     | 800      | 4000      |
| 55167    | 1" Step Shank Knurled ACQ                                     | 0.145"     | 800      | 4000      |
| 55169    | 1-1/4" Step Shank Knurled ACQ                                 | 0.145"     | 800      | 4000      |
| 55171    | 2" Step Shank Knurled ACQ                                     | 0.145"     | 800      | 4000      |
| 55180    | 2-1/8" Duplex Kick Pin                                        | 0.131"     | 800      | 4000      |

Each box of pins come packaged with one fuel cell. Part #55147 comes packaged with Stick-E washers.

## Trak-It® C3 STICK-E

Electrical & Mechanical Fastening System

BASE MATERIALS

Concrete, Lightweight Concrete, Hollow and Grouted CMU, Masonry & Steel



The Stick-E fastening system uses Trak-It gas technology with specially designed accessories for fastening applications encountered by electricians and mechanical contractors. The Stick-E fastening system eliminates drilling and anchoring by offering the ability to fasten directly through the fixture with the

magazine pins and accessories. Operation of a gas powered fastening system does not require special safety training or licensing.

Designed for use in concrete and masonry. Pins are zinc plated or coated with black oxide for a minimum level of corrosion resistance. Plastic collation breaks completely free of pin during installation. Each box of pins come packaged with one fuel cell.



| STANDARD PINS WITH BREAK-FREE COLLATION (SMOOTH SHANK WITH ROLLED POINT) |             |            |          |           | C3 |
|--------------------------------------------------------------------------|-------------|------------|----------|-----------|----|
| CAT. NO.                                                                 | DESCRIPTION | SHANK DIA. | STD. BOX | STD. CTN. |    |
| 55032                                                                    | 3/4" Zinc   | 0.102"     | 1000     | 5000      |    |
| 55033                                                                    | 1" Zinc     | 0.102"     | 1000     | 5000      |    |
| 55034                                                                    | 1-1/4" Zinc | 0.102"     | 1000     | 5000      |    |
| 55035                                                                    | 1-1/2" Zinc | 0.102"     | 1000     | 5000      |    |



| STICK-E MINI CONDUIT CLIP |                        |          |           |  | C3 |
|---------------------------|------------------------|----------|-----------|--|----|
| CAT. NO.                  | DESCRIPTION            | STD. BOX | STD. CTN. |  |    |
| 55064                     | Mini Conduit Clip 1/2" | 100      | 1000      |  |    |
| 55066                     | Mini Conduit Clip 3/4" | 100      | 1000      |  |    |
| 55068                     | Mini Conduit Clip 1"   | 100      | 1000      |  |    |

| TRAK-IT C3-ST SHORT TRACK TOOL |                                  |          |           | C3 |
|--------------------------------|----------------------------------|----------|-----------|----|
| CAT. NO.                       | DESCRIPTION                      | STD. BOX | STD. CTN. |    |
| 55002                          | C3-ST Trak-It Tool (Short Track) | 1        | 1         |    |

Tool comes with case, charger and two batteries. Stick-E accessories are compatible with Trak-It C3 tools.



| TRAK-IT FUEL CELLS |                   |          |           | C3 |
|--------------------|-------------------|----------|-----------|----|
| CAT. NO.           | DESCRIPTION       | STD. BOX | STD. CTN. |    |
| 55010              | Trak-It Fuel Cell | 20       | 80        |    |

Works in temperatures down to 10°F.



| STICK-E CABLE TIE DONUT |                 |          |           | C3 |
|-------------------------|-----------------|----------|-----------|----|
| CAT. NO.                | DESCRIPTION     | STD. BOX | STD. CTN. |    |
| 55076                   | Cable Tie Donut | 100      | 1000      |    |



| TRAK-IT POLE TOOLS |                                         |          |           | C3 |
|--------------------|-----------------------------------------|----------|-----------|----|
| CAT. NO.           | DESCRIPTION                             | STD. BOX | STD. CTN. |    |
| 55049              | 6' Pole Tool and one Trak-It C3-ST Tool | 1        | 1         |    |
| 55051              | 8' Pole Tool and one Trak-It C3-ST Tool | 1        | 1         |    |
| 55053              | 6' Pole Tool                            | 1        | 1         |    |
| 55055              | 8' Pole Tool                            | 1        | 1         |    |



| STICK-E CONDUIT CLIP (ONE HOLE STRAP) |                   |          |           | C3 |
|---------------------------------------|-------------------|----------|-----------|----|
| CAT. NO.                              | DESCRIPTION       | STD. BOX | STD. CTN. |    |
| 55059                                 | Conduit Clip 1/2" | 100      | 1000      |    |
| 55061                                 | Conduit Clip 3/4" | 100      | 1000      |    |
| 55063                                 | Conduit Clip 1"   | 100      | 1000      |    |

## STICK-E Accessories

Stick-E Accessories snap directly in the nose of the Trak-It Tool and are held in place while shooting.



| STICK-E PIN (STEP SHANK) |                              |              |          | C3        |
|--------------------------|------------------------------|--------------|----------|-----------|
| CAT. NO.                 | DESCRIPTION                  | SHANK DIA.   | STD. BOX | STD. CTN. |
| 55080                    | 780 Step Shank Pin (knurled) | 0.102/0.088" | 1000     | 5000      |
| 55081                    | 1" Step Shank Pin            | 0.102/0.088" | 1000     | 5000      |



| STICK-E BX CLIP |                       |          |           | C3 |
|-----------------|-----------------------|----------|-----------|----|
| CAT. NO.        | DESCRIPTION           | STD. BOX | STD. CTN. |    |
| 55054           | STICK-E 3/8" BX Clips | 100      | 1000      |    |



| STICK-E BRIDAL RING |                    |          |           | C3 |
|---------------------|--------------------|----------|-----------|----|
| CAT. NO.            | DESCRIPTION        | STD. BOX | STD. CTN. |    |
| 55094               | Bridal Ring 1-1/4" | 100      | 1000      |    |
| 55095               | Bridal Ring 1-1/2" | 100      | 1000      |    |
| 55096               | Bridal Ring 2"     | 100      | 1000      |    |



| STICK-E STRAP WASHER <span style="float: right;">C3</span> |                            |          |           |
|------------------------------------------------------------|----------------------------|----------|-----------|
| CAT. NO.                                                   | DESCRIPTION                | STD. BOX | STD. CTN. |
| 55062                                                      | Strap Washer 1/2" Diameter | 100      | 1000      |



| STICK-E ROD HANGER <span style="float: right;">C3</span> |                 |          |           |
|----------------------------------------------------------|-----------------|----------|-----------|
| CAT. NO.                                                 | DESCRIPTION     | STD. BOX | STD. CTN. |
| 55050                                                    | Rod Hanger 1/4" | 100      | 1000      |
| 55052                                                    | Rod Hanger 3/8" | 100      | 1000      |



| STICK-E REBAR BASKET CLIP <span style="float: right;">C3</span> |             |          |           |
|-----------------------------------------------------------------|-------------|----------|-----------|
| CAT. NO.                                                        | DESCRIPTION | STD. BOX | STD. CTN. |
| 55070                                                           | #3 & #4 Bar | 100      | 1000      |



| STICK-E RIGHT ANGLE CLIP <span style="float: right;">C3</span> |                                    |          |           |
|----------------------------------------------------------------|------------------------------------|----------|-----------|
| CAT. NO.                                                       | DESCRIPTION                        | STD. BOX | STD. CTN. |
| 55092                                                          | Right Angle Clip (Wirehole 0.278") | 100      | 1000      |



| STICK-E INSULATION WASHER <span style="float: right;">C3</span> |                           |          |           |
|-----------------------------------------------------------------|---------------------------|----------|-----------|
| CAT. NO.                                                        | DESCRIPTION               | STD. BOX | STD. CTN. |
| 55042                                                           | Insulation Washer 1-7/16" | 100      | 1000      |



| STICK-E LATHING WASHER <span style="float: right;">C3</span> |                              |          |           |
|--------------------------------------------------------------|------------------------------|----------|-----------|
| CAT. NO.                                                     | DESCRIPTION                  | STD. BOX | STD. CTN. |
| 55040                                                        | Lathing Washer 1" with Holes | 100      | 1000      |



| STICK-E STAINLESS STEEL SEALING WASHER <span style="float: right;">C3</span> |                        |          |           |
|------------------------------------------------------------------------------|------------------------|----------|-----------|
| CAT. NO.                                                                     | DESCRIPTION            | STD. BOX | STD. CTN. |
| 55043                                                                        | SS Sealing Washer 3/4" | 100      | 1000      |



| STICK-E DENZ-TIGHT™ PIN WASHER <span style="float: right;">C3</span> |                       |          |           |
|----------------------------------------------------------------------|-----------------------|----------|-----------|
| CAT. NO.                                                             | DESCRIPTION           | STD. BOX | STD. CTN. |
| 55157                                                                | Denz-Tight Pin Washer | 100      | 1000      |

## Trak-It® C4 CZ

Gas Fastening System

BASE MATERIALS

Concrete, Lightweight Concrete, Hollow and Grouted CMU, Masonry & Steel



Single shot gas fastening tool used for light duty static load applications. This unique tool has 30% more power than most competitive tools on the market. Its ability to shoot .300 headed pins and 8mm headed pins up to 3 inches in length make it both versatile and user

friendly. Shank diameters include .157, .145 and 8mm; a fuel cell contains enough gas to install up to 800 to 1200 fasteners. Operations of gas fastening systems do not require special safety training or licensing.

| C4 CZ SINGLE SHOT TOOL |                     |          |           |
|------------------------|---------------------|----------|-----------|
| CAT. NO.               | DESCRIPTION         | STD. BOX | STD. CTN. |
| 55133                  | C4 Single Shot Tool | 1        | 1         |



| TRAK-IT FUEL CELLS |                             |          |           |
|--------------------|-----------------------------|----------|-----------|
| CAT. NO.           | DESCRIPTION                 | STD. BOX | STD. CTN. |
| 55015              | ■ Red Nailing Gas Fuel Cell | 12       | 12        |

|                          | Page | Base Material |           |               |                           |                  |                   |        | Insulation Thickness |    |    |    |    |    |    |    |    |     |     |     |     | Coating/Material               |                 |           |                    |  |
|--------------------------|------|---------------|-----------|---------------|---------------------------|------------------|-------------------|--------|----------------------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|--------------------------------|-----------------|-----------|--------------------|--|
|                          |      | Steel Deck    | Wood Deck | Concrete Deck | Lightweight Concrete Deck | Insulating Cover | Cement Wood Fiber | Gypsum | 1"                   | 2" | 3" | 4" | 5" | 6" | 7" | 8" | 9" | 10" | 11" | 12" | 13" | Perma-Seal Coated Carbon Steel | Stainless Steel | Galvalume | Engineered Plastic |  |
| Perma-Seal Roofing Spike | 60   |               |           | ●             |                           |                  |                   | ●      | ●                    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   | ●   | ●   | ●   | ●                              |                 |           |                    |  |
| Powerlite                | 60   |               |           |               | ●                         | ○                | ●                 | ●      | ●                    | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●  | ●   |     |     |     |                                |                 |           | ●                  |  |
| Deck Screws              | 61   | ●             | ●         |               |                           |                  |                   | ●      | ●                    | ●  | ●  | ●  | ●  | ●  |    |    |    |     |     |     |     | ●                              |                 |           |                    |  |
| Twin Fast Screws         | 61   | ●             |           |               |                           |                  |                   |        |                      |    |    |    |    |    |    |    |    |     |     |     |     |                                |                 |           |                    |  |
| Stress Plates            | 61   |               |           |               |                           |                  |                   |        |                      |    |    |    |    |    |    |    |    |     |     |     |     | ●                              | ●               | ●         |                    |  |

- Suitable
- May be Suitable



### Spike® (Perma-Seal®)

Roofing Anchor

BASE MATERIAL

Concrete

SIZE RANGE

3/16" x 1" to 1/4" x 14"

ANCHOR MATERIAL

Perma-Seal Coated Carbon Steel

For roofing applications, the Spike is a one-piece, vibration resistant anchor available in 1/4" diameter for use in fastening insulation, single-ply membrane, wood, and metal to structural concrete roof decks. This version of the SPIKE has a Perma-Seal coating a proprietary fluoropolymer which meets the corrosion resistance requirements of FMRC Standard 4470. It is designed for use in conjunction with Powers insulation or membrane stress plates.

| PERMA-SEAL SPIKE |               |            |             |          |           |
|------------------|---------------|------------|-------------|----------|-----------|
| CAT. NO.         | ANCHOR SIZE   | DRILL DIA. | MIN. EMBED. | STD. BOX | STD. CTN. |
| 3811             | 1/4" x 1-1/4" | 1/4"       | 7/8"        | 500      | 500       |
| 3723             | 1/4" x 1-1/2" | 1/4"       | 7/8"        | 500      | 500       |
| 3725             | 1/4" x 2"     | 1/4"       | 1-1/4"      | 500      | 500       |
| 3727             | 1/4" x 2-1/2" | 1/4"       | 1-1/4"      | 500      | 500       |
| 3729             | 1/4" x 3"     | 1/4"       | 1-1/4"      | 500      | 500       |
| 3731             | 1/4" x 3-1/2" | 1/4"       | 1-1/4"      | 500      | 500       |
| 3733             | 1/4" x 4"     | 1/4"       | 1-1/4"      | 500      | 500       |
| 3735             | 1/4" x 4-1/2" | 1/4"       | 1-1/4"      | 500      | 500       |
| 3737             | 1/4" x 5"     | 1/4"       | 1-1/4"      | 500      | 500       |
| 3739             | 1/4" x 5-1/2" | 1/4"       | 1-1/4"      | 500      | 500       |
| 3741             | 1/4" x 6"     | 1/4"       | 1-1/4"      | 250      | 250       |
| 3743             | 1/4" x 6-1/2" | 1/4"       | 1-1/4"      | 250      | 250       |
| 3745             | 1/4" x 7"     | 1/4"       | 1-1/4"      | 250      | 250       |
| 3747             | 1/4" x 7-1/2" | 1/4"       | 1-1/4"      | 250      | 250       |
| 3749             | 1/4" x 8"     | 1/4"       | 1-1/4"      | 250      | 250       |
| 3753             | 1/4" x 9"     | 1/4"       | 1-1/4"      | 250      | 250       |
| 3757             | 1/4" x 10"    | 1/4"       | 1-1/4"      | 250      | 250       |
| 3765             | 1/4" x 11"    | 1/4"       | 1-1/4"      | 100      | 100       |
| 3769             | 1/4" x 12"    | 1/4"       | 1-1/4"      | 100      | 100       |
| 3773             | 1/4" x 13"    | 1/4"       | 1-1/4"      | 100      | 100       |
| 3777             | 1/4" x 14"    | 1/4"       | 1-1/4"      | 100      | 100       |



| SPIKE INSTALLATION TOOLS FOR ROOFING APPLICATIONS |                   |            |          |
|---------------------------------------------------|-------------------|------------|----------|
| CAT. NO.                                          | DESCRIPTION       | GUIDE I.D. | STD. BOX |
| 3790                                              | SPIKE Driver 1000 | 1/2"       | 1        |
| 3791                                              | SPIKE Driver 2000 | 1/2"       | 1        |



### Powerlite™

Roofing Anchor

BASE MATERIAL

Structural Cement Wood Fiber, Gypsum, or Lightweight Concrete

SIZE RANGE

2" to 14" Lengths

ANCHOR MATERIAL

Reinforced Engineered Nylon

The Powerlite is a fastener used to mechanically attach rigid insulation board and single-ply membrane to structural cement wood fiber, gypsum, and lightweight insulating concrete roof decks. The fastener is used in conjunction with insulation and membrane stress plates. The plates are manufactured with four barbs on the underside that grip the insulation board or single-ply membrane preventing rotation.

| CAT. NO. | LENGTH | MIN. EMBED. | STD. CTN. |
|----------|--------|-------------|-----------|
| 4670     | 2"     | 1-1/2"      | 500       |
| 4671     | 2-1/2" | 1-1/2"      | 500       |
| 4669     | 2-3/4" | 1-1/2"      | 500       |
| 4672     | 3"     | 1-1/2"      | 500       |
| 4673     | 3-1/2" | 1-1/2"      | 500       |
| 4674     | 4"     | 1-1/2"      | 500       |
| 4675     | 4-1/2" | 1-1/2"      | 500       |
| 4676     | 5"     | 1-1/2"      | 500       |
| 4677     | 5-1/2" | 1-1/2"      | 500       |
| 4678     | 6"     | 1-1/2"      | 500       |
| 4679     | 6-1/2" | 1-1/2"      | 500       |
| 4680     | 7"     | 1-1/2"      | 250       |
| 4681     | 7-1/2" | 1-1/2"      | 250       |
| 4683     | 8"     | 1-1/2"      | 250       |
| 4684     | 8-1/2" | 1-1/2"      | 250       |
| 4685     | 9"     | 1-1/2"      | 250       |
| 4686     | 9-1/2" | 1-1/2"      | 250       |
| 4687     | 10"    | 1-1/2"      | 250       |
| 4688     | 11"    | 1-1/2"      | 250       |
| 4689     | 12"    | 1-1/2"      | 250       |
| 4691     | 13"    | 1-1/2"      | 250       |
| 4692     | 14"    | 1-1/2"      | 250       |

| POWERLITE PLATES (GALVALUME) |                               |           |
|------------------------------|-------------------------------|-----------|
| CAT. NO.                     | LENGTH                        | STD. CTN. |
| 3876                         | 2" Powerlite Membrane Plate   | 500       |
| 3896                         | 3" Powerlite Insulation Plate | 500       |

| POWERLITE INSTALLATION ACCESSORIES |                      |          |
|------------------------------------|----------------------|----------|
| CAT. NO.                           | DESCRIPTION          | STD. BOX |
| 4695                               | Powerlite Bit Tip    | 1        |
| 4696                               | Powerlite Bit Holder | 1        |



## Deck Screws

Roofing Anchor

BASE MATERIAL

Steel, Wood or Concrete Roof Decks

SIZE RANGE

No. 12 x 1-5/8" to No. 12 x 8"

SCREW MATERIAL

Perma-Seal Coated Carbon Steel

Deck Screws are designed for attaching rigid insulation board, single ply membrane, and wood blocking to steel and wood decks. Some sizes can also be used in concrete decks. Available sizes include No. 12 diameters in carbon steel with either hex washer or Phillips-style heads. The Deck Screws are used in conjunction with insulation or membrane plates and can also be used with batten bar. For corrosion protection the screws are coated with Perma-Seal coating, a proprietary fluoropolymer, which meets the requirements of Factory Mutual Standard 4470.

| PERMA-SEAL COATED NO.12 PH DECK SCREW |                 |               |          |           |
|---------------------------------------|-----------------|---------------|----------|-----------|
| CAT. NO.                              | SIZE            | THREAD LENGTH | STD. BOX | STD. CTN. |
| 2613                                  | No. 12 x 1-5/8" | 1-1/2"        | 1000     | 1000      |
| 2618                                  | No. 12 x 2-1/4" | 2"            | 1000     | 1000      |
| 2624                                  | No. 12 x 2-7/8" | 2-5/8"        | 1000     | 1000      |
| 2530                                  | No. 12 x 3-1/4" | 3"            | 1000     | 1000      |
| 2632                                  | No. 12 x 3-3/4" | 3"            | 1000     | 1000      |
| 2636                                  | No. 12 x 4-1/2" | 3"            | 1000     | 1000      |
| 2640                                  | No. 12 x 5"     | 3"            | 1000     | 1000      |
| 2648                                  | No. 12 x 6"     | 4"            | 1000     | 1000      |
| 2656                                  | No. 12 x 7"     | 4"            | 500      | 500       |
| 2664                                  | No. 12 x 8"     | 4"            | 500      | 500       |

| DRIVER BITS FOR DECK SCREWS |                               |          |
|-----------------------------|-------------------------------|----------|
| CAT. NO.                    | SIZE                          | STD. BOX |
| 3585                        | No. 3 Phillips Power Bit (2") | 1        |
| 3590                        | 1/4" Hex Bit (1-7/8")         | 1        |



## Twin Fast Screws

Roofing Anchor

| CAT. NO. | SIZE                  | STD. BOX |
|----------|-----------------------|----------|
| 2210*    | 8-18 X 1/2" Pan Head  |          |
| 2225*    | 10-16 x 3/4" Hex Head |          |
| 2229*    | 10-16 x 1" Hex Head   |          |

\* Discontinued item once current stock exhausted.

## Stress Plates

BASE MATERIAL

Insulation, Single-Ply Roofing Materials

SIZE RANGE

2" and 3" Round

SCREW MATERIAL

Stainless Steel or Galvalume Disc

Stress plates are designed for use with Deck Screws and Spike anchors. Stress plates can be grouped into two categories; insulation plates and membrane plates, as the term implies, are used when mechanically attaching rigid foam insulation to roof decks. They are manufactured in a 3" diameter for use with No. 12, No. 14, and No. 15 Deck Screws™, 3/16" and 1/4" Spike anchors, and 1/4" Speed Lock Toggles. Two carbon steel plates, a Type 304 stainless steel plate, disc are available. A recessed plate is available for use with the No. 12 hex washer head screws. For corrosion resistance, a Galvalume coating is applied to the carbon steel plates. Membrane plates, sometimes called lap plates, are used when mechanically attaching single ply material in the area of the lap or seam. They are manufactured in a 2" diameter for use with No. 12 Deck Screws and 1/4" Spike anchors.



| INSULATION PLATES - FOR PH SCREWS |          |                 |                 |           |
|-----------------------------------|----------|-----------------|-----------------|-----------|
| CAT. NO.                          | SIZE     | PLATE THICKNESS | MATERIAL        | STD. CTN. |
| 3880                              | 3" round | .019"           | Galvalume       | 500       |
| 3881*                             | 3" round | .019"           | Stainless Steel | 500       |

\* Discontinued item once current stock exhausted.

| MEMBRANE PLATES |                 |                 |           |           |
|-----------------|-----------------|-----------------|-----------|-----------|
| CAT. NO.        | SIZE            | PLATE THICKNESS | MATERIAL  | STD. CTN. |
| 3878            | 2" round barbed | .034"           | Galvalume | 1000      |

### Stainless Steel Sealing and Plastic Washers

Stainless Steel Sealing and Plastic Washers are typically used with 1/4" diameter anchors for roof flashing, termination bar and dissimilar metal applications.



| SEALING WASHER TYPE 304 STAINLESS STEEL WITH EPDM SEAL |                         |          |           |
|--------------------------------------------------------|-------------------------|----------|-----------|
| CAT. NO.                                               | SIZE                    | STD. BOX | STD. CTN. |
| 2896                                                   | 1/4" (ID) x 1-1/8" (OD) | 100      | 1000      |



| PLASTIC WASHER |                              |          |           |
|----------------|------------------------------|----------|-----------|
| CAT. NO.       | SIZE                         | STD. BOX | STD. CTN. |
| 3994           | 1/4" (ID) x 1-1/2" (OD) Poly | 1000     | -         |

|                           | Page | Diameter |       |       |       |      |       |       |      |       |      |       |      |        |      |        |      |    |        |        |        |        |        |        |    |        |    |        |    |    |   |
|---------------------------|------|----------|-------|-------|-------|------|-------|-------|------|-------|------|-------|------|--------|------|--------|------|----|--------|--------|--------|--------|--------|--------|----|--------|----|--------|----|----|---|
|                           |      | 1/8"     | 5/32" | 3/16" | 7/32" | 1/4" | 9/32" | 5/16" | 3/8" | 7/16" | 1/2" | 9/16" | 5/8" | 11/16" | 3/4" | 27/32" | 7/8" | 1" | 1-1/8" | 1-1/4" | 1-3/8" | 1-1/2" | 1-5/8" | 1-3/4" | 2" | 2-1/2" | 3" | 3-1/2" | 4" | 5" |   |
| Fat-Head                  | 63   |          |       | ●     |       | ●    |       | ●     | ●    | ●     | ●    | ●     |      |        |      |        |      |    |        |        |        |        |        |        |    |        |    |        |    |    |   |
| S-4 Plus SDS              | 63   | ●        | ●     | ●     | ●     |      | ●     | ●     | ●    | ●     | ●    | ●     | ●    | ●      | ●    | ●      | ●    | ●  |        |        |        |        |        |        |    |        |    |        |    |    |   |
| Industrial Grade          | 64   | ●        | ●     | ●     | ●     |      | ●     | ●     |      | ●     |      | ●     |      |        |      |        |      |    |        |        |        |        |        |        |    |        |    |        |    |    |   |
| Quatro Head SDS           | 64   |          |       |       |       |      |       |       |      |       |      | ●     |      | ●      |      | ●      |      | ●  | ●      |        |        |        |        |        |    |        |    |        |    |    |   |
| 4-X Cutter SDS-Max Shank  | 64   |          |       |       |       |      |       |       |      |       | ●    | ●     | ●    | ●      | ●    | ●      | ●    | ●  | ●      | ●      | ●      | ●      | ●      |        |    |        |    |        |    |    |   |
| 4-X Cutter Spline Shank   | 65   |          |       |       |       |      |       |       |      |       |      | ●     |      | ●      |      | ●      | ●    | ●  | ●      | ●      | ●      | ●      | ●      |        |    |        |    |        |    |    |   |
| Single Tip Spline Shank   | 65   |          |       |       |       |      |       |       | ●    | ●     | ●    | ●     | ●    | ●      | ●    | ●      | ●    | ●  | ●      | ●      | ●      | ●      | ●      | ●      | ●  | ●      |    |        |    |    |   |
| HD Straight Shank         | 65   | ●        | ●     | ●     |       | ●    |       | ●     | ●    |       | ●    |       | ●    |        | ●    |        |      |    |        |        |        |        |        |        |    |        |    |        |    |    |   |
| IG Straight Shank         | 66   | ●        |       | ●     |       | ●    |       | ●     | ●    | ●     | ●    | ●     | ●    | ●      | ●    | ●      | ●    | ●  |        |        |        |        |        |        |    |        |    |        |    |    |   |
| "A" Taper shank           | 66   |          |       |       |       | ●    |       |       |      |       |      |       | ●    |        | ●    |        |      |    |        |        |        |        |        |        |    |        |    |        |    |    |   |
| Rotary Carbide Bits       | 66   | ●        |       | ●     |       | ●    |       | ●     | ●    |       | ●    |       | ●    |        | ●    |        |      |    |        |        |        |        |        |        |    |        |    |        |    |    |   |
| Rebar Cutter              | 66   |          |       |       |       |      |       |       |      |       | ●    | ●     | ●    | ●      | ●    |        | ●    | ●  |        | ●      |        |        |        |        |    |        |    |        |    |    |   |
| Heavy Duty Chisels        | 67   |          |       |       |       |      |       |       |      |       |      |       |      |        |      |        | ●    |    |        |        | ●      |        |        | ●      |    |        |    |        |    |    |   |
| One & Two Piece Core Bits | 67   |          |       |       |       |      |       |       |      |       |      |       |      |        |      |        |      |    |        |        |        |        |        | ●      | ●  | ●      | ●  | ●      | ●  | ●  | ● |

- Suitable
- May be Suitable



## FatHead™ Bits

Solid Carbide Head Carbide Drill Bits

USE IN

Rotary hammer with SDS chuck or SDS adapter

SIZE RANGE

3/16" x 4-1/4" to 9/16" x 18"



Powers FatHead combines an intelligent, innovative geometry with uncompromising quality in its detail. This is reflected in prolonged durability, precision drill holes and exceptional low vibration - even when the going gets tough. A premium tool for anyone who has to drill into reinforced concrete or natural stone.

| FATHEAD CARBIDE DRILL BITS |                                                                                                 |               |           |
|----------------------------|-------------------------------------------------------------------------------------------------|---------------|-----------|
| CAT. NO.                   | SIZE                                                                                            | USABLE LENGTH | STD. TUBE |
| 0701                       | 3/16" x 4-1/4"                                                                                  | 2"            | 1         |
| 0703                       | 3/16" x 6-1/4"                                                                                  | 4"            | 1         |
| 0705                       | 3/16" x 8-1/4"                                                                                  | 6"            | 1         |
| 0707                       | 3/16" x 10-1/4"                                                                                 | 8"            | 1         |
| 0709                       | 3/16" x 12-1/4"                                                                                 | 10"           | 1         |
| 0711                       | 1/4" x 4-1/4"                                                                                   | 2"            | 1         |
| 0713                       | 1/4" x 6-1/4"                                                                                   | 4"            | 1         |
| 0715                       | 1/4" x 8-1/4"                                                                                   | 6"            | 1         |
| 0717                       | 1/4" x 10-1/4"                                                                                  | 8"            | 1         |
| 0719                       | 1/4" x 12-1/4"                                                                                  | 10"           | 1         |
| 0721                       | 5/16" x 6-1/4"                                                                                  | 4"            | 1         |
| 0723                       | 5/16" x 12-1/4"                                                                                 | 10"           | 1         |
| 0725                       | 5/16" x 18"                                                                                     | 16"           | 1         |
| 0727                       | 3/8" x 6-1/4"                                                                                   | 4"            | 1         |
| 0729                       | 3/8" x 12-1/4"                                                                                  | 10"           | 1         |
| 0731                       | 3/8" x 18"                                                                                      | 16"           | 1         |
| 0733                       | 7/16" x 6-1/4"                                                                                  | 4"            | 1         |
| 0735                       | 7/16" x 12-1/4"                                                                                 | 10"           | 1         |
| 0737                       | 7/16" x 18"                                                                                     | 16"           | 1         |
| 0739                       | 1/2" x 6-1/4"                                                                                   | 4"            | 1         |
| 0741                       | 1/2" x 12-1/4"                                                                                  | 10"           | 1         |
| 0743                       | 1/2" x 18"                                                                                      | 16"           | 1         |
| 0745                       | 9/16" x 6-1/4"                                                                                  | 4"            | 1         |
| 0747                       | 9/16" x 12-1/4"                                                                                 | 10"           | 1         |
| 0749                       | 9/16" x 18"                                                                                     | 16"           | 1         |
| 0751                       | 5 Piece Drill Set Kit includes 3/16", 1/4", 5/16", 3/8" and 1/2" diameter bits (all 6" overall) |               | 1         |



## SDS-Plus / S-4 Plus SDS

Carbide Drill Bits

USE IN

Rotary hammer with SDS chuck or SDS adapter

SIZE RANGE

5/32" x 6" to 1" x 18"

S-4 Plus SDS Carbide Drill Bits are designed for use in a rotary hammer equipped with an SDS (slotted drive shaft) type chuck. The bits are manufactured to conform with ANSI Standard B212.15 and can be used to drill in concrete, block, brick, and soft stone.

| SDS-PLUS / S-4 PLUS SDS CARBIDE DRILL BITS |                       |               |            |
|--------------------------------------------|-----------------------|---------------|------------|
| CAT. NO.                                   | SIZE                  | USABLE LENGTH | STD. POUCH |
| 0302                                       | 5/32" x 6"            | 4"            | 1          |
| 0304                                       | 3/16" x 4"            | 2"            | 1          |
| 0306                                       | 3/16" x 6"            | 4"            | 1          |
| 0308                                       | 3/16" x 8"            | 6"            | 1          |
| 0310                                       | 3/16" x 10"           | 8"            | 1          |
| 0312                                       | 3/16" x 12"           | 10"           | 1          |
| 0314                                       | 3/16" x 14"           | 12"           | 1          |
| 0316                                       | 7/32" x 8"            | 6"            | 1          |
| 0317                                       | 7/32" x 10"           | 8"            | 1          |
| 0318                                       | 7/32" x 14"           | 12"           | 1          |
| 0319                                       | 7/32" x 16"           | 14"           | 1          |
| 0320                                       | 1/4" x 4"             | 2"            | 1          |
| 0321                                       | 1/4" x 6"             | 4"            | 1          |
| 0322                                       | 1/4" x 8"             | 6"            | 1          |
| 0323                                       | 1/4" x 11"            | 9"            | 1          |
| 0324                                       | 1/4" x 14"            | 12"           | 1          |
| 0325                                       | 1/4" x 16"            | 14"           | 1          |
| 0327                                       | 1/4" x 20"            | 18"           | 1          |
| 0329                                       | 5/16" x 6"            | 4"            | 1          |
| 0331                                       | 5/16" x 12"           | 10"           | 1          |
| 0333                                       | 3/8" x 6"             | 4"            | 1          |
| 0334                                       | 3/8" x 10"            | 8"            | 1          |
| 0336                                       | 3/8" x 12"            | 10"           | 1          |
| 0338                                       | 3/8" x 18"            | 16"           | 1          |
| 0339                                       | 3/8" x 24"            | 22"           | 1          |
| 0341                                       | 7/16" x 6"            | 4"            | 1          |
| 0343                                       | 7/16" x 12"           | 10"           | 1          |
| 0346                                       | 1/2" x 6"             | 4"            | 1          |
| 0348                                       | 1/2" x 10"            | 8"            | 1          |
| 0349                                       | 1/2" x 12"            | 10"           | 1          |
| 0351                                       | 1/2" x 18"            | 16"           | 1          |
| 0352                                       | 1/2" x 24"            | 22"           | 1          |
| 0354                                       | 9/16" x 6"            | 4"            | 1          |
| 0355                                       | 9/16" x 12"           | 8"            | 1          |
| 0359                                       | 5/8" x 8"             | 6"            | 1          |
| 0361                                       | 5/8" x 12"            | 10"           | 1          |
| 0362                                       | 5/8" x 18"            | 16"           | 1          |
| 0364                                       | 11/16" x 8"           | 6"            | 1          |
| 0365                                       | 11/16" x 12"          | 10"           | 1          |
| 0368                                       | 3/4" x 8"             | 6"            | 1          |
| 0370                                       | 3/4" x 12"            | 10"           | 1          |
| 0371                                       | 3/4" x 18"            | 16"           | 1          |
| 0373                                       | 27/32" x 8"           | 6"            | 1          |
| 0375                                       | 7/8" x 8"             | 6"            | 1          |
| 0376                                       | 7/8" x 12"            | 10"           | 1          |
| 0377                                       | 7/8" x 18"            | 16"           | 1          |
| 0379                                       | 1" x 8"               | 6"            | 1          |
| 0380                                       | 1" x 10"              | 8"            | 1          |
| 0381                                       | 1" x 12"              | 10"           | 1          |
| 0382                                       | 1" x 18"              | 16"           | 1          |
| 0394†                                      | Spline to SDS Adapter | -             | 1          |
| 0396†                                      | SDS Max Adapter       | -             | 1          |

† Use of SDS-Plus drill bit in larger rotary hammers with an adapter will reduce bit life.

For use in hard aggregate concrete. Job site tests required.

| SPECIAL APPLICATION BIT FOR 3/8" PIPE SPIKE |                         |               |            |
|---------------------------------------------|-------------------------|---------------|------------|
| CAT. NO.                                    | SIZE                    | USABLE LENGTH | STD. POUCH |
| 0390*                                       | 7mm x 4" Pipe SPIKE Bit | 2"            | 1          |

\* Discontinued item once current stock exhausted.

| SDS-PLUS / S-4 PLUS SDS CARBIDE DRILL BIT BULK PACKS |             |               |               |
|------------------------------------------------------|-------------|---------------|---------------|
| CAT. NO.                                             | SIZE        | USABLE LENGTH | BITS PER PACK |
| 0662                                                 | 5/32" x 6"  | 4"            | 25            |
| 0664                                                 | 3/16" x 4"  | 2"            | 25            |
| 0666                                                 | 3/16" x 6"  | 4"            | 25            |
| 0668                                                 | 3/16" x 8"  | 6"            | 25            |
| 0670                                                 | 3/16" x 10" | 8"            | 25            |
| 0675                                                 | 7/32" x 6"  | 4"            | 25            |
| 0676                                                 | 7/32" x 8"  | 6"            | 25            |
| 0677                                                 | 7/32" x 10" | 8"            | 25            |
| 0680                                                 | 1/4" x 4"   | 2"            | 25            |
| 0681                                                 | 1/4" x 6"   | 4"            | 25            |
| 0682                                                 | 1/4" x 8"   | 6"            | 25            |
| 0683                                                 | 1/4" x 11"  | 9"            | 25            |
| 0689                                                 | 5/16" x 6"  | 4"            | 25            |
| 0693                                                 | 3/8" x 6"   | 4"            | 25            |
| 0696                                                 | 1/2" x 6"   | 4"            | 15            |
| 0697                                                 | 5/8" x 8"   | 6"            | 15            |



| SDS-PLUS ACCU-BIT FOR DROPIN AND SMART DI+ |                                 |                 |               |
|--------------------------------------------|---------------------------------|-----------------|---------------|
| CAT. NO.                                   | SIZE                            | USABLE LENGTH   | BITS PER PACK |
| 00391                                      | SDS-Plus 3/8" Concrete Accu-Bit | for 1/4" Dropin | 1             |
| 00397                                      | SDS-Plus 1/2" Concrete Accu-Bit | for 3/8" Dropin | 1             |
| 00410                                      | SDS-Plus 5/8" Concrete Accu-Bit | for 1/2" Dropin | 1             |
| 00418                                      | SDS-Plus 7/8" Concrete Accu-Bit | for 5/8" Dropin | 1             |
| 00419                                      | SDS-Plus 1" Concrete Accu-Bit   | for 3/4" Dropin | 1             |



| SDS-PLUS ACCU-BIT FOR MINI DROPIN |                                 |                      |               |
|-----------------------------------|---------------------------------|----------------------|---------------|
| CAT. NO.                          | SIZE                            | USABLE LENGTH        | BITS PER PACK |
| 00392                             | SDS-Plus 3/8" Concrete Accu-Bit | for 1/4" Mini Dropin | 1             |
| 00398                             | SDS-Plus 1/2" Concrete Accu-Bit | for 3/8" Mini Dropin | 1             |
| 00411                             | SDS-Plus 5/8" Concrete Accu-Bit | for 1/2" Mini Dropin | 1             |

Quatro Head SDS-Plus Carbide Drill Bits are designed to reduce vibration and noise. These bits produce rounder and more accurately located anchor holes.



| QUATRO HEAD SDS-PLUS CARBIDE DRILL BITS |              |               |            |
|-----------------------------------------|--------------|---------------|------------|
| CAT. NO.                                | SIZE         | USABLE LENGTH | STD. POUCH |
| 7086*                                   | 3/4" x 18"   | 16"           | 1          |
| 7094                                    | 1-1/8" x 18" | 16"           | 1          |
| 7095                                    | 1-1/4" x 18" | 16"           | 1          |

\* Discontinued item once current stock exhausted.



## Industrial Grade Bits (Value Paks) **New!**

Carbide Drill Bits fits SDS®

USE IN

Rotary hammer with SDS chuck or SDS adapter

SIZE RANGE

5/32" x 6" to 5/8" x 8"

These carbide bits are designed to be used in rotary hammer equipment with a slotted drive shank. Available in bulk pack quantities only with the large volume user in mind. These bits meet are manufactured to conform with ANSI standard B212.15 and can be used in concrete, block, brick and soft stone.

### INDUSTRIAL GRADE VALUE PAK BITS

| CAT. NO. | DESCRIPTION    | USABLE LENGTH | STD. BOX | STD. CTN. |
|----------|----------------|---------------|----------|-----------|
| 0801     | 5/32" x 6-1/4" | 4"            | 25       | 500       |
| 0803     | 3/16" x 4-1/4" | 2"            | 25       | 450       |
| 0805     | 3/16" x 6-1/4" | 4"            | 25       | 500       |
| 0807     | 3/16" x 8-1/4" | 6"            | 25       | 450       |
| 0809     | 3/16" x 10"    | 7-1/2"        | 25       | 300       |
| 0811     | 7/32" x 6-1/4" | 4"            | 25       | 500       |
| 0813     | 7/32" x 8-1/4" | 6"            | 25       | 450       |
| 0815     | 7/32" x 10"    | 7-1/2"        | 25       | 300       |
| 0817     | 1/4" x 4-1/4"  | 2"            | 25       | 450       |
| 0819     | 1/4" x 6-1/4"  | 4"            | 25       | 500       |
| 0821     | 1/4" x 8-1/4"  | 6"            | 25       | 450       |
| 0823     | 1/4" x 11"     | 8-1/2"        | 25       | 300       |
| 0825     | 5/16" x 6-1/4" | 4"            | 25       | 500       |
| 0827     | 3/8" x 6-1/4"  | 4"            | 25       | 300       |
| 0829     | 1/2" x 6-1/4"  | 3-1/2"        | 15       | 180       |
| 0831     | 5/8" x 8"      | 5"            | 15       | 120       |

\* SDS® is a registered trademark of Robert Bosch Co.



## SDS-Max®

USE IN

Rotary hammer with SDS-Max chuck

SIZE RANGE

1/2" x 13" to 1-1/2" x 23"

SDS-Max Carbide Drill Bits are designed for use in a rotary hammer equipped with a SDS-Max type chuck. The bits are manufactured to conform with ANSI Standard B212.15 and can be used to drill in concrete, block, brick, and soft stone.

### 4-X CUTTER SDS-MAX DRILL BITS

| CAT. NO. | SIZE         | USABLE LENGTH | STD. TUBE |
|----------|--------------|---------------|-----------|
| 8801†    | 1/2" x 13"   | 8"            | 1         |
| 8802†    | 1/2" x 21"   | 16"           | 1         |
| 8805†    | 9/16" x 13"  | 8"            | 1         |
| 8809     | 5/8" x 13"   | 8"            | 1         |
| 8810     | 5/8" x 21"   | 16"           | 1         |
| 8812     | 5/8" x 36"   | 31"           | 1         |
| 8815     | 11/16" x 21" | 16"           | 1         |
| 8817     | 3/4" x 13"   | 8"            | 1         |
| 8818     | 3/4" x 21"   | 16"           | 1         |
| 8820     | 3/4" x 36"   | 31"           | 1         |
| 8829     | 7/8" x 13"   | 8"            | 1         |
| 8830     | 7/8" x 21"   | 16"           | 1         |
| 8833     | 1" x 13"     | 8"            | 1         |
| 8834     | 1" x 21"     | 16"           | 1         |
| 8836     | 1" x 36"     | 31"           | 1         |
| 8843     | 1-1/8" x 15" | 10"           | 1         |
| 8844     | 1-1/8" x 23" | 18"           | 1         |
| 8846     | 1-1/4" x 15" | 10"           | 1         |
| 8847     | 1-1/4" x 23" | 18"           | 1         |
| 8848     | 1-1/4" x 36" | 31"           | 1         |
| 8853     | 1-3/8" x 23" | 18"           | 1         |
| 8859     | 1-1/2" x 23" | 18"           | 1         |

SDS-Max is a registered trademark of Robert Bosch Co.



## Spline

USE IN

Rotary hammer with Spline chuck

SIZE RANGE

3/8" x 8" to 2" x 23"

Spline Carbide Drill Bits are designed for use in a rotary hammer equipped with a spline type chuck. The bits are manufactured to conform with ANSI Standard B212.15 and can be used to drill in concrete, block, brick, and soft stone. Both 4-X Cutter and single tip head styles are available.

### 4-X CUTTER HEAD SPLINE CARBIDE DRILL BITS

| CAT. NO. | SIZE         | USABLE LENGTH | STD. TUBE |
|----------|--------------|---------------|-----------|
| 7017     | 5/8" x 10"   | 5"            | 1         |
| 7020     | 5/8" x 16"   | 11"           | 1         |
| 7021     | 5/8" x 23"   | 18"           | 1         |
| 7031     | 3/4" x 11"   | 6"            | 1         |
| 7033     | 3/4" x 16"   | 11"           | 1         |
| 7035     | 3/4" x 23"   | 18"           | 1         |
| 7036     | 3/4" x 27"   | 22"           | 1         |
| 7037     | 3/4" x 36"   | 31"           | 1         |
| 7043     | 7/8" x 16"   | 11"           | 1         |
| 7045     | 7/8" x 23"   | 18"           | 1         |
| 7049     | 1" x 16"     | 11"           | 1         |
| 7051     | 1" x 23"     | 18"           | 1         |
| 7053     | 1" x 36"     | 31"           | 1         |
| 7057     | 1-1/8" x 16" | 11"           | 1         |
| 7059     | 1-1/8" x 23" | 18"           | 1         |
| 7064     | 1-1/4" x 16" | 11"           | 1         |
| 7066     | 1-1/4" x 23" | 18"           | 1         |
| 7069     | 1-1/4" x 36" | 31"           | 1         |
| 7072     | 1-3/8" x 23" | 18"           | 1         |
| 7077     | 1-1/2" x 23" | 18"           | 1         |



### SINGLE TIP SPLINE CARBIDE DRILL BITS

| CAT. NO. | SIZE         | USABLE LENGTH | STD. TUBE |
|----------|--------------|---------------|-----------|
| 1401     | 3/8" x 8"    | 3"            | 1         |
| 1402     | 3/8" x 11"   | 5"            | 1         |
| 1403     | 3/8" x 16"   | 11"           | 1         |
| 1405     | 7/16" x 13"  | 8"            | 1         |
| 1407     | 1/2" x 10"   | 5"            | 1         |
| 1408     | 1/2" x 13"   | 8"            | 1         |
| 1409     | 1/2" x 16"   | 11"           | 1         |
| 1410     | 1/2" x 22"   | 18"           | 1         |
| 1412     | 1/2" x 27"   | 22"           | 1         |
| 1413     | 1/2" x 36"   | 31"           | 1         |
| 1415     | 9/16" x 13"  | 8"            | 1         |
| 1418     | 5/8" x 10"   | 5"            | 1         |
| 1419     | 5/8" x 13"   | 8"            | 1         |
| 1420     | 5/8" x 16"   | 11"           | 1         |
| 1421     | 5/8" x 22"   | 18"           | 1         |
| 1424     | 5/8" x 36"   | 31"           | 1         |
| 1427     | 11/16" x 13" | 8"            | 1         |
| 1431     | 3/4" x 10"   | 5"            | 1         |
| 1433     | 3/4" x 16"   | 11"           | 1         |
| 1434     | 3/4" x 22"   | 18"           | 1         |
| 1436     | 3/4" x 27"   | 22"           | 1         |
| 1437     | 3/4" x 36"   | 31"           | 1         |
| 1443     | 7/8" x 16"   | 11"           | 1         |
| 1444     | 7/8" x 22"   | 18"           | 1         |
| 1446     | 7/8" x 36"   | 31"           | 1         |
| 1449     | 1" x 16"     | 11"           | 1         |
| 1450     | 1" x 22"     | 18"           | 1         |
| 1453     | 1" x 36"     | 31"           | 1         |
| 1457     | 1-1/8" x 16" | 11"           | 1         |

| CAT. NO. | SIZE         | USABLE LENGTH | STD. TUBE |
|----------|--------------|---------------|-----------|
| 1458     | 1-1/8" x 22" | 18"           | 1         |
| 1464     | 1-1/4" x 16" | 11"           | 1         |
| 1465     | 1-1/4" x 22" | 18"           | 1         |
| 1470     | 1-3/8" x 16" | 11"           | 1         |
| 1471     | 1-3/8" x 22" | 18"           | 1         |
| 1477     | 1-1/2" x 22" | 18"           | 1         |
| 1486     | 1-3/4" x 22" | 18"           | 1         |
| 1490     | 2" x 22"     | 18"           | 1         |



## HD Straight Shank Bits

USE IN

Hammer Drill

SIZE RANGE

1/8" x 3" to 3/4" x 24"

Heavy Duty Straight Shank Carbide Bits are designed for use in a hammer drill equipped with a 3 jaw Jacobs type chuck. The bits meet ANSI standards and can be used to drill in concrete, block, brick, and soft stone.

### HD STRAIGHT SHANK BITS

| CAT. NO. | DRILL SIZE | USABLE LENGTH | SHANK SIZE | STD. POUCH |
|----------|------------|---------------|------------|------------|
| 0501     | 1/8" x 3"  | 2-1/4"        | 1/8"       | 1          |
| 0503     | 5/32" x 6" | 4"            | 5/32"      | 1          |
| 0504     | 3/16" x 4" | 2-3/4"        | 3/16"      | 1          |
| 0505     | 3/16" x 6" | 4"            | 3/16"      | 1          |
| 0512     | 1/4" x 4"  | 2-3/4"        | 1/4"       | 1          |
| 0513     | 1/4" x 6"  | 4"            | 1/4"       | 1          |
| 0514     | 1/4" x 13" | 11"           | 1/4"       | 1          |
| 0516     | 1/4" x 24" | 22"           | 1/4"       | 1          |
| 0519     | 5/16" x 6" | 4"            | 5/16"      | 1          |
| 0522     | 3/8" x 6"  | 4"            | 3/8"       | 1          |
| 0523     | 3/8" x 13" | 11"           | 3/8"       | 1          |
| 0525     | 3/8" x 24" | 22"           | 3/8"       | 1          |
| 0531     | 1/2" x 6"  | 4"            | 3/8"       | 1          |
| 0532     | 1/2" x 13" | 11"           | 3/8"       | 1          |
| 0534     | 1/2" x 24" | 22"           | 3/8"       | 1          |
| 0538     | 5/8" x 6"  | 4"            | 1/2"       | 1          |
| 0540     | 5/8" x 13" | 11"           | 1/2"       | 1          |
| 0545     | 3/4" x 6"  | 4"            | 1/2"       | 1          |
| 0547     | 3/4" x 13" | 11"           | 1/2"       | 1          |
| 0548*    | 3/4" x 24" | 22"           | 1/2"       | 1          |

### BULK PACK

| CAT. NO. | DRILL SIZE | BITS PER PACK |
|----------|------------|---------------|
| 0593     | 1/4" x 4"  | 25            |
| 0594     | 1/4" x 6"  | 25            |
| 0595     | 3/8" x 6"  | 10            |

\* Discontinued item once current stock exhausted. 5/8" and larger, shank is hex shaped.



## IG Straight Shank Bits

USE IN

Hammer Drill

SIZE RANGE

1/8" x 3" to 1" x 12"

Industrial Grade Straight Shank Carbide Bits are designed for use in a hammer drill equipped with a 3 jaw Jacobs type chuck. The bits meet ANSI standards and can be used to drill in concrete, block, brick, and soft stone.

| HD STRAIGHT SHANK BITS |            |               |            |            |  |
|------------------------|------------|---------------|------------|------------|--|
| CAT. NO.               | DRILL SIZE | USABLE LENGTH | SHANK SIZE | STD. POUCH |  |
| 0601                   | 1/8" x 3"  | 2-1/4"        | 1/8"       | 1          |  |
| 0604                   | 3/16" x 4" | 2-3/4"        | 3/16"      | 1          |  |
| 0605                   | 3/16" x 6" | 4"            | 3/16"      | 1          |  |
| 0612                   | 1/4" x 4"  | 2-3/4"        | 1/4"       | 1          |  |
| 0613                   | 1/4" x 6"  | 4"            | 1/4"       | 1          |  |
| 0614                   | 1/4" x 12" | 10"           | 1/4"       | 1          |  |
| 0618                   | 5/16" x 4" | 2-3/4"        | 1/4"       | 1          |  |
| 0619                   | 5/16" x 6" | 4"            | 1/4"       | 1          |  |
| 0621                   | 3/8" x 4"  | 2"            | 1/4"       | 1          |  |
| 0622                   | 3/8" x 6"  | 4"            | 1/4"       | 1          |  |
| 0623                   | 3/8" x 12" | 10"           | 5/16"      | 1          |  |
| 0625                   | 3/8" x 24" | 22"           | 5/16"      | 1          |  |
| 0626                   | 7/16" x 6" | 4"            | 3/8"       | 1          |  |
| 0631                   | 1/2" x 6"  | 4"            | 3/8"       | 1          |  |
| 0632                   | 1/2" x 12" | 10"           | 3/8"       | 1          |  |
| 0635                   | 9/16" x 6" | 4"            | 3/8"       | 1          |  |
| 0638                   | 5/8" x 6"  | 4"            | 3/8"       | 1          |  |
| 0640                   | 5/8" x 12" | 10"           | 3/8"       | 1          |  |
| 0645                   | 3/4" x 6"  | 4"            | 1/2"       | 1          |  |
| 0647                   | 3/4" x 12" | 11"           | 1/2"       | 1          |  |
| 0650                   | 7/8" x 12" | 10"           | 1/2"       | 1          |  |
| 0654                   | 1" x 12"   | 10"           | 1/2"       | 1          |  |

| BULK PACK |            |               |  |
|-----------|------------|---------------|--|
| CAT. NO.  | DRILL SIZE | BITS PER PACK |  |
| 0561      | 3/16" x 4" | 50            |  |
| 0562      | 3/16" x 6" | 50            |  |
| 0563      | 1/4" x 4"  | 25            |  |
| 0564      | 1/4" x 6"  | 25            |  |
| 0565      | 3/8" x 6"  | 10            |  |
| 0566      | 1/2" x 6"  | 10            |  |



## "A" Taper Drill Bits

USE IN

Rotary hammer with "A" Taper chuck or Adapter

SIZE RANGE

1/4" x 6" to 3/4" x 12"

"A" Taper Drill Bits are designed for use in a rotary hammer equipped with an "A" Taper type chuck. The bits meet ANSI standards and can be used to drill in concrete, block, brick, and soft stone.

| "A" TAPER BITS |            |               |           |
|----------------|------------|---------------|-----------|
| CAT. NO.       | DRILL SIZE | USABLE LENGTH | STD. TUBE |
| 0712           | 1/4" x 6"  | 4"            | 1         |

| "A" TAPER SHANK ADAPTERS |                       |            |  |
|--------------------------|-----------------------|------------|--|
| CAT. NO.                 | SIZE                  | STD. POUCH |  |
| 0790*                    | SDS-Max to "A" Taper  | 1          |  |
| 0798*                    | Ejector Pin "A" Taper | 1          |  |

\* Discontinued item once current stock exhausted.

## Rotary Carbide Drills

USE IN

Rotary Only Drill

SIZE RANGE

1/8" x 2-1/2" to 3/4" x 6"

Rotary Carbide Bits are designed for use in a rotation only drill equipped with a 3 jaw Jacobs type chuck. The bits meet ANSI standards with a positive rake tip and can be used to drill in soft or brittle masonry materials using rotation only. Fast spiral flutes are for fast drilling in soft to medium masonry materials such as block or brick. Deep fluted drills perform best in concrete where the wide fluting helps clean concrete chips and dust from the hole.



| FAST SPIRAL ROTARY CARBIDE BITS |            |            |               |                |           |  |
|---------------------------------|------------|------------|---------------|----------------|-----------|--|
| CAT. NO.                        | DRILL SIZE | SHANK SIZE | USABLE LENGTH | OVERALL LENGTH | STD. TUBE |  |
| 8500                            | 1/8"       | 1/8"       | 1-3/4"        | 2-1/2"         | 1         |  |
| 8506                            | 3/16"      | 3/16"      | 1-3/4"        | 3"             | 1         |  |
| 8508                            | 1/4"       | 1/4"       | 1-3/4"        | 4"             | 1         |  |
| 8512                            | 5/16"      | 1/4"       | 2-1/2"        | 4"             | 1         |  |
| 8514                            | 3/8"       | 1/4"       | 2-1/2"        | 4"             | 1         |  |
| 8560                            | 3/8"       | 1/4"       | 4-1/2"        | 6"             | 1         |  |
| 8562*                           | 3/8"       | 1/4"       | 16-1/2"       | 18"            | 1         |  |
| 8520                            | 1/2"       | 3/8"       | 4"            | 6"             | 1         |  |
| 8566*                           | 1/2"       | 3/8"       | 10"           | 12"            | 1         |  |
| 8526                            | 5/8"       | 1/2"       | 4"            | 6"             | 1         |  |
| 8570                            | 5/8"       | 1/2"       | 10-1/2"       | 12"            | 1         |  |
| 8530                            | 3/4"       | 1/2"       | 4"            | 6"             | 1         |  |

\* Discontinued item once current stock exhausted.

| DEEP FLUTE ROTARY CARBIDE BITS |            |            |               |                |           |  |
|--------------------------------|------------|------------|---------------|----------------|-----------|--|
| CAT. NO.                       | DRILL SIZE | SHANK SIZE | USABLE LENGTH | OVERALL LENGTH | STD. TUBE |  |
| 8606                           | 3/16"      | 3/16"      | 1-3/4"        | 3"             | 1         |  |
| 8608                           | 1/4"       | 1/4"       | 1-3/4"        | 4"             | 1         |  |



## Rebar Cutter

Carbide Drill Bits

USE WITH

Rotation-only drill with standard 1/2" Jacobs style chuck

SIZE RANGE

1/2" to 1-1/4" diameter

Rebar cutter bits provide a quick, easy method for drilling through mesh or reinforcing bars embedded in concrete when the drilled hole cannot be relocated. The bits are used in the rotation only mode and are designed to fit in a standard rotary drill motor with a 1/2" Jacobs style chuck.

When drilling with a hammer drill or rotary hammer, it is important to stop drilling immediately when a standard carbide bit contacts steel reinforcing bar or wire mesh. If the drilled hole cannot be relocated, a rebar cutter bit is used to drill through the embedded steel. Insert the rebar cutter bit into the chuck of a standard 1/2" rotary drill. Place the bit into the partially drilled hole until it contacts the mesh or reinforcing bar. Drill through the embedded steel with the rebar cutter bit. Once the bit has drilled through the steel, remove the debris from the hole, then continue drilling with the standard carbide tipped bit using a hammer drill or rotary hammer.

| CAT. NO. | SIZE         | USABLE LENGTH | STD. BOX |
|----------|--------------|---------------|----------|
| 0845     | 1/2" x 12"   | 11"           | 12       |
| 0844     | 9/16" x 12"  | 11"           | 12       |
| 0846     | 5/8" x 12"   | 11"           | 12       |
| 0847     | 11/16" x 12" | 11"           | 12       |
| 0849     | 3/4" x 12"   | 11"           | 12       |
| 0851     | 7/8" x 12"   | 11"           | 12       |
| 0853     | 1" x 12"     | 11"           | 12       |
| 0855     | 1-1/4" x 12" | 11"           | 12       |



## Heavy Duty Chisels

USE IN

Combination Rotary Hammer / Chipping Tool with a Spline, SDS-Max® or 3/4" Hex Chuck

SIZE RANGE

Bull Point, Flat, Scaling and Bushing

Heavy Duty Chisels and accessories are designed for use in a combination rotary hammer / chipping tool equipped with a Spline, SDS-Max, or 3/4" Hex chuck. They can be used for chipping applications in concrete, block, brick, and soft stone.

| CAT. NO. | SHANK TYPE | DESCRIPTION                        | STD. BOX |
|----------|------------|------------------------------------|----------|
| 0950     | Spline     | Bull Point Chisel 12"              | 1        |
| 0951     | Spline     | Bull Point Chisel 18"              | 1        |
| 0952     | Spline     | Flat Chisel 1" x 12"               | 1        |
| 0953     | Spline     | Flat Chisel 1" x 18"               | 1        |
| 0954     | Spline     | Scaling Chisel 1-1/2" x 12"        | 1        |
| 0955     | Spline     | Scaling Chisel 2" x 12"            | 1        |
| 0959     | Spline     | Ground Rod Driver 7/8" x 10-1/4"   | 1        |
| 0960     | Spline     | Bushing Tool 1-3/4" x 9-1/4"       | 1        |
| 0965     | SDS-Max    | Bull Point Chisel 12"              | 1        |
| 0966     | SDS-Max    | Bull Point Chisel 18"              | 1        |
| 0967     | SDS-Max    | Flat Chisel 1" x 12"               | 1        |
| 0968     | SDS-Max    | Flat Chisel 1" x 18"               | 1        |
| 0969     | SDS-Max    | Scaling Chisel 1-1/2" x 12"        | 1        |
| 0970     | SDS-Max    | Scaling Chisel 2" x 12"            | 1        |
| 0974     | SDS-Max    | Ground Rod Driver 7/8" x 10-1/4" 1 | 1        |
| 0975     | SDS-Max    | Bushing Tool 1-3/4" x 9-1/2"       | 1        |
| 0982     | 3/4" Hex   | Flat chisel 1" x 12"               | 1        |
| 0983     | 3/4" Hex   | Flat chisel 1" x 18"               | 1        |

\*Discontinued item once current stock exhausted.



## Heavy Duty One and Two Piece Core Bits

USE IN

Rotary hammer with a Spline or SDS-Max® chuck

SIZE RANGE

1-1/2" to 5"

Heavy Duty Core Bits are designed for use in a rotary hammer equipped with a spline or SDS-Max type chuck. The bits can be used to drill in concrete, block, brick, and soft stone.

| ONE PIECE SPLINE CORE BITS - HEAVY WALL |            |                                     |           |
|-----------------------------------------|------------|-------------------------------------|-----------|
| CAT. NO.                                | DRILL SIZE | DESCRIPTION                         | STD. TUBE |
| 0260*                                   | 2-5/8"     | Hollow Core Bit Spline 2-5/8" x 22" | 1         |

One piece core bits are packaged with a centering bit and ejector pin. \* Discontinued item once current stock exhausted.

| ONE PIECE SDS-MAX CORE BITS - HEAVY WALL |            |                                      |           |
|------------------------------------------|------------|--------------------------------------|-----------|
| CAT. NO.                                 | DRILL SIZE | DESCRIPTION                          | STD. TUBE |
| 0284                                     | 2-5/8"     | Hollow Core Bit SDS-Max 2-5/8" x 22" | 1         |

One piece core bits are packaged with a centering bit and ejector pin.

### Cups With External Male Rope Thread

| TWO PIECE CORE BITS - HEAVY WALL |            |                                |           |
|----------------------------------|------------|--------------------------------|-----------|
| CAT. NO.                         | DRILL SIZE | DESCRIPTION                    | STD. TUBE |
| 0570                             | 1-3/4"     | Hollow Core Bit 1-3/4" x 4"    | 1         |
| 0571                             | 2"         | Hollow Core Bit 2" x 4"        | 1         |
| 0572                             | 2-5/8"     | Versio Core Cutter 2-5/8" x 4" | 1         |
| 0573                             | 3-1/8"     | Versio Core Cutter 3-1/8" x 4" | 1         |
| 0575                             | 4"         | Versio Core Cutter 4" x 4"     | 1         |
| 0576                             | 5"         | Versio Core Cutter 5" x 4"     | 1         |

### Drive shanks with internal female Rope Thread

| TWO PIECE CORE BITS |            |               |                 |               |           |
|---------------------|------------|---------------|-----------------|---------------|-----------|
| CAT. NO.            | SHANK TYPE | DESCRIPTION   | OVERALL LENGTH  | USABLE LENGTH | STD. TUBE |
| 0578                | Spline     | Adaptor       | 7"              | 2"            | 1         |
| 0582                | Universal  | Extension     | 11" (w/o flute) | 11"           | 1         |
| 0580                | SDS-Max    | Adaptor       | 7-3/4"          | 2-3/4"        | 1         |
| 0590                | -          | Centering Bit | 6"              | -             | 1         |

# Carbide Drill Bit Warranty

Powers carbide tipped drill bits are warranted against failure due to manufacturing defects. This warranty does not apply to failure due to normal wear or where there is evidence of improper application or misuse.

## ANSI Standard B212.15

Powers carbide tipped drill bits are manufactured to conform with the American National Standards Institute, Standard B212.15 as listed in the following table. Powers anchors, unless otherwise noted, are designed to be installed in holes drilled in the base material using carbide tipped bits meeting this specification.

| NOMINAL DRILL O.D. | ANSI STANDARD | NOMINAL DRILL O.D. | ANSI STANDARD |
|--------------------|---------------|--------------------|---------------|
| 1/8"               | 0.134-0.140"  | 11/16"             | 0.713-0.723"  |
| 5/32"              | 0.165-0.171"  | 3/4"               | 0.775-0.787"  |
| 11/64"             | 0.181-0.187"  | 27/32"             | 0.865-0.881"  |
| 3/16"              | 0.198-0.206"  | 7/8"               | 0.905-0.917"  |
| 7/32"              | 0.229-0.237"  | 15/16"             | 0.968-0.980"  |
| 1/4"               | 0.260-0.268"  | 1"                 | 1.030-1.042"  |
| 9/32"              | 0.296-0.304"  | 1 1/8"             | 1.160-1.175"  |
| 5/16"              | 0.327-0.335"  | 1 1/4"             | 1.285-1.300"  |
| 3/8"               | 0.390-0.398"  | 1 3/8"             | 1.410-1.425"  |
| 7/16"              | 0.458-0.468"  | 1 1/2"             | 1.535-1.550"  |
| 1/2"               | 0.520-0.530"  | 1 5/8"             | 1.655-1.675"  |
| 9/16"              | 0.582-0.592"  | 1 3/4"             | 1.772-1.792"  |
| 5/8"               | 0.650-0.660"  | 2"                 | 2.008-2.028"  |

## Evaluation Procedure

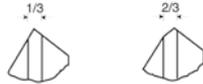
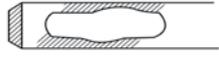
The following criteria is used to evaluate drill bits submitted for warranty. Warranty claims for carbide tipped drill bits should be submitted by the distributor to the local Powers branch from which the merchandise was purchased. Full or partial replacement of a drill bit is based on the amount of wear differential as measured between front and rear portion of the flute as shown below. To determine the wear differential, measure the diameter of flute at  $d_1$  and  $d_2$ . The variation between  $d_1$  and  $d_2$  is the differential.

The allowable wear differential is listed in the table below. Bits which are worn beyond the differential have reached the maximum expected bit life and do not qualify for warranty.

| DRILL BIT DIAMETER (INCH) | WEAR DIFFERENTIAL (INCH) | DRILL BIT DIAMETER (INCH) | WEAR DIFFERENTIAL (INCH) |
|---------------------------|--------------------------|---------------------------|--------------------------|
| 3/16"                     | 0.008"                   | 3/4"                      | 0.024"                   |
| 1/4"                      | 0.008"                   | 7/8"                      | 0.028"                   |
| 5/16"                     | 0.012"                   | 1"                        | 0.032"                   |
| 3/8"                      | 0.016"                   | 1 1/8"                    | 0.036"                   |
| 7/16"                     | 0.020"                   | 1 1/4"                    | 0.039"                   |
| 1/2"                      | 0.020"                   | 1 3/8"                    | 0.043"                   |
| 9/16"                     | 0.024"                   | 1 1/2"                    | 0.048"                   |
| 5/8"                      | 0.024"                   | 1 3/4"                    | 0.048"                   |
| 11/16"                    | 0.024"                   | 2"                        | 0.048"                   |

## Evaluation Criteria

The following chart shows typical drill bit damage associated with warranty claims, the probable cause, and the warranty policy. Warranty replacement credit will be adjusted based on the amount of drill bit wear. No replacement will be made for bits where the shank transition is polished or where flutes are full of foreign material such as tar.

| EVALUATION CRITERIA                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DAMAGE                                                                                                                                 | CAUSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p><b>Carbide Insert Lip is Missing or Loose</b></p>  | <p>This is generally caused by poor brazing indicated by lack of brazing material at the base of the tip or voids. Failure usually occurs within the first 10 to 20 holes.</p> <p><b>Full/Partial Replacement based on wear.</b></p>                                                                                                                                                                                                                                                                      |
| <p><b>Carbide Tip Fractured</b></p>                   | <p>Tip fractures will occur if reinforcing bars or other embedments are struck when drilling into concrete or masonry. These failures are easily identified because both the carbide insert and the tool steel will be damaged.</p> <p><b>No Warranty Replacement.</b></p> <p>Tip fractures may also occur if the carbide insert is out of tolerance, usually too hard. If this type of failure occurs, only the carbide tip will be fractured.</p> <p><b>Full/Partial Replacement based on wear.</b></p> |
| <p><b>Carbide Tip/Tool Body Breakage</b></p>          | <p>A failure such as this indicates that the brazing may not have been strong enough to resist the differences in thermal expansion between the carbide tip and the tool steel.</p> <p><b>Full/Partial Replacement based on wear.</b></p>                                                                                                                                                                                                                                                                 |
| <p><b>Carbide Cutting Edge is Worn/Rounded</b></p>   | <p>If the cutting edge of the carbide tip is worn more than 2/3 of its width, the bit has reached the end of its useful life.</p> <p><b>No Warranty Replacement.</b></p>                                                                                                                                                                                                                                                                                                                                  |
| <p><b>Loss of Carbide/Tool Tip</b></p>              | <p>A failure such as this indicates that the brazing may not have been strong enough to resist the differences in thermal expansion between the carbide tip and the tool steel.</p> <p><b>Full/Partial Replacement based on wear.</b></p>                                                                                                                                                                                                                                                                 |
| <p><b>Shaft Breakage Behind Head</b></p>            | <p>Shaft breakage may occur if there is a defect in the tool steel. This will be indicated by a notch which is evident in the fracture area.</p> <p><b>Full/Partial Replacement based on wear.</b></p> <p>Breakage may occur if the bit has been over torqued by jamming it in the hole. This is indicated by the lack of a notch and an irregular / jagged fracture area.</p> <p><b>No Warranty Replacement.</b></p>                                                                                     |
| <p><b>Shaft Breakage Away from Tool Head</b></p>   | <p>Shaft breakage away from the tool head may occur if there is a defect in the tool steel. This will be indicated by a notch which is evident in the fracture area.</p> <p><b>Full/Partial Replacement based on wear.</b></p> <p>Breakage in the shaft away from the head or tip area may also occur if the bit has been over torqued by jamming it in the hole. This is indicated by an irregular or jagged fracture area. No notch is apparent.</p> <p><b>No Warranty Replacement.</b></p>             |
| <p><b>Shaft Breakage - Clogged Flutes</b></p>      | <p>The bit has been used to drill through plastic, tar, adhesive, etc., and the flutes have been clogged. This is an indication that the bit could not clear dust and chips and broke from overload.</p> <p><b>No Warranty Replacement.</b></p>                                                                                                                                                                                                                                                           |
| <p><b>Shank Transition is Polished</b></p>         | <p>If the drill bit has been used to produce holes deeper than the length of the flute, the area between the flutes and the upper shank will become polished. Dust may also be packed into the flutes.</p> <p><b>No Warranty Replacement.</b></p>                                                                                                                                                                                                                                                         |
| <p><b>Tool Holder Slots Worn</b></p>               | <p>Wear in the tool holder area indicates that the drill motor used should be repaired or replaced.</p> <p><b>No Warranty Replacement.</b></p>                                                                                                                                                                                                                                                                                                                                                            |

## POWERS FASTENERS BRANCH INFORMATION

### USA LOCATIONS

| CITY                   | ADDRESS                                              | CONTACT                          | PHONE        | FAX          |
|------------------------|------------------------------------------------------|----------------------------------|--------------|--------------|
| Alabama                | 5405 Buford Hwy Suite 410 Norcross, GA 30071-3984    | Jeff Hatchett                    | 205-520-6044 | 678-966-9242 |
| Atlanta                | 5405 Buford Hwy Suite 410 Norcross, GA 30071-3984    | Ryan Raica                       | 678-966-0000 | 678-966-9242 |
| Boston                 | 2 Powers Lane, Brewster, NY 10509                    | Jack Armour                      | 800-524-3244 | 914-576-6483 |
| Charlotte              | 349 L West Tremont Avenue, Charlotte, NC 28203       | Bob Aurisy                       | 704-375-5012 | 704-376-5517 |
| Chicago                | 2472 Wisconsin Avenue, Downers Grove, IL 60515       | Dan Gilligan                     | 630-960-3156 | 630-960-3912 |
| Dallas                 | 10625 King Williams Drive, Dallas, TX 75220          | Matt Henderson                   | 972-506-9258 | 972-506-9290 |
| Denver                 | 2475 West Second Street #35, Denver, CO 80223        | Jared Hemmert                    | 303-922-9202 | 303-922-9228 |
| Detroit                | 21600 Wyoming Avenue, Oak Park, MI 48237             | Glen Gaskill                     | 248-543-8600 | 248-543-8601 |
| Florida                | 2412 Lynx Lane, Orlando, FL 32804                    | John Christy                     | 813-626-4500 | 813-626-4545 |
| Houston                | 13833 North Promenade, Suite 100, Stafford, TX 77477 | Vaughn Eshelman                  | 281-491-0351 | 281-491-0367 |
| Indianapolis           | 15290 Stony Creek Way, Noblesville, IN 46060         | Bill Trainor                     | 317-773-1668 | 317-773-1690 |
| Kansas City / St Louis | 716 East 16th Avenue, North Kansas City, MO 64116    | Don James, Jr.                   | 816-472-5038 | 816-472-5040 |
| Los Angeles            | 2761 Dow Avenue, Tustin, CA 92780                    | Jason Shelburne/Trevor Gillespie | 714-731-2500 | 714-731-2566 |
| Maryland               | 3137-B Pennsy Drive, Landover, MD 20785              | Chris Van Syckle                 | 301-773-1722 | 301-341-5119 |
| Milwaukee              | 12020 W. Feerick Street, Milwaukee, WI 53222         | Donn Raduenz                     | 414-466-2400 | 414-466-3993 |
| Minneapolis            | 351 Wilson Street, NE Minneapolis, MN 55413          | Josh Nelson                      | 612-644-3047 | 612-331-3549 |
| Nashville/Memphis      | 221 Blanton Avenue, Nashville, TN 37210              | Jamie Utley                      | 615-248-2667 | 615-248-2676 |
| New Orleans            | 102 Sampson Street, Houston, TX 77003                | Cal Zenor                        | 713-228-1524 | 713-228-1528 |
| New York               | 2 Powers Lane, Brewster, NY 10509                    | John Partridge                   | 914-235-6300 | 914-576-6483 |
| Philadelphia           | 2 Powers Lane, Brewster, NY 10509                    | Greg Stephenson                  | 800-524-3244 | 914-576-6483 |
| Phoenix                | 3602 E. Southern Ave, Suite 5 Phoenix, AZ 85040      | Craig Hering                     | 602-431-8024 | 602-431-8027 |
| Pittsburgh             | 1360 Island Avenue, McKees Rocks, PA 15136           | Bill Dugan                       | 412-771-3010 | 412-771-9858 |
| Portland               | 129 South Kenyon, Seattle, WA 98108                  | Jim Swink                        | 360-608-6845 | 206-762-5817 |
| Rochester              | 40 Harrison Street, Rochester, NY 14605              | Mike Kolstad                     | 585-288-2080 | 585-288-8732 |
| Salt Lake City         | 2212 SW Temple #20, Salt Lake City, UT 84115         | Don Manning                      | 801-466-9428 | 801-466-3083 |
| San Francisco          | 28970 Hopkins Street, Suite B+C, Hayward, CA 94545   | John O'Brien                     | 510-293-1500 | 510-293-1505 |
| Seattle                | 129 South Kenyon, Seattle, WA 98108                  | Darin Arnold                     | 206-762-5812 | 206-762-5817 |

### INTERNATIONAL LOCATIONS

| COUNTRY/REGION | ADDRESS                                                                                                          | CONTACT                  | PHONE            | FAX              |
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| India          | D-112, Twin Arcade, Military Rd., Marol, Andheri, East Mumbai, 400059                                            | Ajay Kulkarni            | 91-22-401591304  |                  |
| Manitoba       | 1810 Dublin Avenue Man. Winnipeg, R3H 0H3                                                                        | Distributor              | 204-633-0064     | 204-694-1261     |
| New Zealand    | PO Box 302 076 North Harbour Auckland                                                                            | Claye Sesto              | +64 9415 2425    | +64 9415 2627    |
| Quebec         | 721 Meloche Avenue, Dorval, Quebec H9P 2S5                                                                       | Alan Hill                | 514-631-4216     | 514-631-2583     |
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| Latin America  |         | Alan Hebert | 01150767477749 | 914-576-6483 |

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|--------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------|--------------------------------------|
| Brazil             | HARD, Rua Dr. Humberto Pinheiro Viera, 150 Lote B, 1 B Distrito Industrial, Joinville, Brazil                                 |                                                        | 55-47-40097209                       | 55-47-40097217                       |
| Colombia           | Electrogeno, S.A., Carrera 52 #71c-38, Bogota, Colombia                                                                       |                                                        | (57) 1 6600 9436                     |                                      |
| Costa Rica         | Electro Mechanics Supply, La Uruca Contiguo Banco Ntnl., De Costa Rica Condominio, Horizontal Bodega #9, San Jose, Costa Rica |                                                        | (506) 2233-2595                      |                                      |
| Dominican Republic | Calle Estancia Nueva #17 E Esquina Cul-De-Sac 9, San Geronimo, Santo Domingo                                                  | Rodfor Team                                            | 809-224-5615                         | 809-472-8640                         |
| Ecuador            | Acero Comercial Ecuatoriano S.A., Av. La Prensa N45-14 y Telégrafo 1 - Quito<br>Av. Juan Tanca Marengo Km. 1.7 - Guayaquil    | info@acerocomercial.com<br>info@yge@acerocomercial.com | (593-2) 2454 333<br>(593-4) 2683 060 | (593-2) 2454 455<br>(593-4) 2683 059 |
| Guatemala          | Tecnofijaciones, 6 Avenue 8-56 Zona 9, Zona 9, Guatemala                                                                      | Oscar Lucas Penagos                                    | 502-233-4-3478                       |                                      |
| Panama             | Centro-Industrial, Via Cincuentenario, No. 7910, Ciudad Panama, Panama                                                        |                                                        | (507) 302-8022                       |                                      |
| Peru               | Powers Peruana SAC, Av. Santa Catalina, 555 La Victoria, Lima 13, Peru<br>(www.powersperuana.com)                             | Martin Vasquez                                         | (011) 511 265 8500                   | (011) 511 330 0909                   |
| Venezuela          | Calle Sucre/Qta. Maudora, #1721 Entre Cec Acosta Y San Ignacio Chacao, Caracas                                                | Distributor                                            | 58 212 264 1313                      | 58 212 263 0219                      |
| Trinidad - Tobago  | Ft. Farfan, 3-5 Ibis Avenue, Ibis Acres, San Juan                                                                             | Derek Cumming                                          | (868) 674-7896                       |                                      |

Note: The information and data contained within this documentation was current as of August 2012. The information is for marketing purposes only and is subject to change and updates as needed. Powers Fasteners, Inc. reserves the right to change designs and specifications without notice or liability for such changes. Please contact Powers Fasteners for the most current and up to date available information or refer to our website at [www.powers.com](http://www.powers.com)

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