

It's Now the Law*
Anchors Must Meet
the New 2003 & 2006
Building Code

Strength Design+

Anchoring Systems

* 47 of 50 states have
adopted the new codes.



Powers
FASTENERS



Why is it Changing?

The building code serves as the basic 'roadmap' that an engineer uses to design a structure. The new building code which is now in effect addresses anchor design. The previous versions of the building code (known as legacy codes) did not directly address post-installed anchoring applications. In prior years many structural engineers relied on manufacturer based testing programs, technical information provided by manufacturers, and a design method which incorporated safety margins provided by a standard global factor (Allowable Stress Design). However in 2003, the International Building Code (IBC) introduced state-of-the-art requirements for design, testing and evaluation of anchors. The 2003 and 2006 IBC (and soon the 2009 IBC) is now in place in nearly all United States jurisdictions making these changes nationwide.

What is Changing?

The Testing, Evaluation and Approvals

For anchors used in reinforced concrete, previous ICC-ES Evaluation Reports (based on Allowable Stress Design) are no longer valid as of December 31, 2007. All anchoring products are required to comply with the IBC through new product specific testing and evaluation. Product listings for masonry will remain provided the reports are renewed.

The Anchors

New anchors are available to meet the new criteria. Powers is leading the way with more than 12 new solutions that are covered in this brochure.

The Design Method

Allowable Stress Design (ASD) is being replaced by Strength Design (SD). The old method of applying a 4:1 or 10:1 safety factor (as determined by the engineer) is no longer applicable under the International Building Code. Only Strength Design will be recognized in the future as Code Compliant and along with its use new anchors are being qualified to these new standards.

P O W E R S F A S T E N E R S S T R E N G T H



**IBC
BUILDING
CODE**



**ACI
ANCHOR
DESIGN**



**ICC ES
TESTING AND
QUALIFICATION**

What is Strength Design?

Strength Design is a design procedure used by engineers to ensure acceptable levels of safety and the proper functioning of a structure for its expected lifetime. Strength Design is based on statistics, engineering principles and a general knowledge of material behavior. When applied to anchoring, Strength Design requires the factored resistance to be greater than the factored loading. Or:

$$\text{Anchor Strength Reduced by a Strength Reduction Factor (Factored Resistance)} \geq \text{Forces Acting on an Anchor Increased by a Load Factor (Factored Load)}$$

How Does Strength Design Apply to Anchorage in Concrete?

The International Building Code requires post-installed anchors to be designed according to ACI 318 Appendix D which is based on Strength Design. Furthermore, Appendix D requires post-installed anchors to be tested and qualified according to ACI 355.2 (which is supplemented by ICC-ES Acceptance Criteria 193). ACI 355.2 introduced several new tests including the performance of anchors in cracked concrete conditions.

What Products Conform?

This brochure introduces the '+' line of Strength Design products from Powers Fasteners that have been and are to be introduced in the coming years. These products will be tested (or have completed testing) for compliance with the IBC. The '+' product line includes Power-Stud+ SD1, SD2, SD3, SD4 and SD6; Wedge-Bolt+; Power-Bolt+; Tapper+; Vertigo+; Snake+; AC100+Gold and PE1000+. Powers has completed testing on several products with many sizes now in stock. These products have been evaluated by an independent testing agency as a Category 1 anchor (highest reliability rating obtainable).



D E S I G N A N C H O R I N G + S Y S T E M S

New products have the following features and benefits:

- Qualification testing for building code compliance (2006 IBC)
- Performance over a wide range of compressive strength (2500–8500psi)
- Knowledge of failure mode of the anchor
- Increased safety, reliability and confidence in anchor performance
- Design for cracked concrete conditions
- Easy calculations of anchor groups

When Will New Products Be Available?

Several products are now in stock. In 2009, the 7400 series wedge anchor is changing over to the new Power-Stud+SD1 and testing will have been finished, the evaluation report from ICC-ES completed (ESR-2818) and test results and product available for sale. This will be great leverage for a Powers distributor to sell against contractor direct or any distributor brand with Powers main product (the carbon wedge anchor with the carbon steel clip) meeting the new code. Other suppliers will try to sell a new high priced wedge anchor as their solution but we believe contractors will find stocking and using approved and unapproved anchors highly confusing. However, when needed, the Power-Stud+ SD2 is in stock and testing is completed on 3/8", 1/2", 5/8", and 3/4" diameters. You can market this product as a premium performance cracked concrete anchor (higher values) meeting Category 1 reliability ratings approved for strength design.

Powers has also introduced two injectable adhesive products meeting the new AC 308 criteria: PE1000+ epoxy and AC100+Gold. Both products meet stringent AC 308 requirements for creep resistance.

How Soon Will Contractors Be Required To Use The New Anchors?

Specifications for code compliant products and enforcement of the code are becoming more common. Only a small fraction of the industry's product base currently meet the requirements. Powers is committed to providing our customers with full line of code compliant products to meet the demand. We are pursuing competitive marketing of the '+' product line to ensure Powers products will move from your shelves to the jobsite in record time. By embracing the codes it is Powers hope that the industry will evolve faster as Powers distributors use the competitive advantage of selling "off the shelf" code compliant products to its advantage.

At present Powers has several products in testing or completion of testing for Strength Design which you will find in this brochure. As these products come into stock the older version of the product will be replaced as a running change with the part number for the new product having SD at the end of its part number.

Powers goal is to adopt all our primary products to have Strength Design testing and be code complaint at costs for the products which are reasonable. Powers will change the product to meet the new code rather than add a new product line. Our competitor's duplicity and cost premiums will cause confusion for both the distributor and contractors.

We believe our competitors' goals are to only change a few products, add them as separate products lines, and to sell at a terribly high price. Powers hopes to demystify the new approvals by changing our products to meet the code so you can be certain if you stock Powers then your structural anchors will be code complaint and you do not need to maintain a separate inventory.

P O W E R S F A S T E N E R S S T R E N G T H



STRENGTH DESIGN MECHANICAL ANCHORS

Are There Tools to Help Me?

Absolutely! Powers now offers the following support to ease your transition into the new building code:

Powers Training School

Powers conducts regular training for end-users, distributors and engineers. Powers is happy to help educate you and your staff on the opportunities that present themselves as a result of the change in the building code.

Powers Engineering Seminars

Powers conducts regular engineering training seminars including Lunch & Learn sessions in all Powers markets in North America plus more in-depth programs for large groups of engineers conducted by a qualified engineer.



Powers Design Assist

Powers has developed a new anchor design software that puts technical data into a real-time environment to help you visualize, consider and specify anchors.



PDA Powers Design Assist
Real-Time Anchor Design Software

Powers On-Line Contractor Training

Powers has an on-line training program for operators installing Powers cartridge adhesives. Contractors can qualify as registered installers by watching a video documenting proper installation techniques and then taking a test.

For a sample go to www.powersexams.com

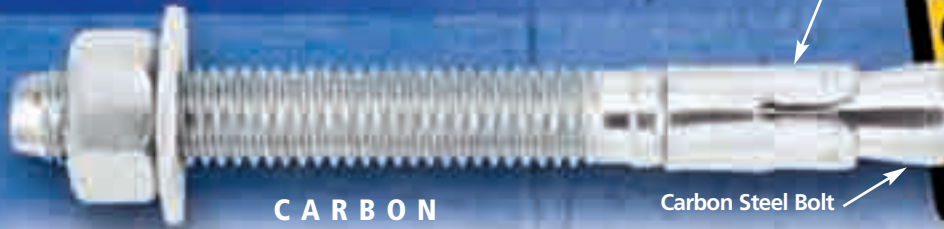


Powers would like its customers to know that we are committed to keeping pace with the changing building codes. Powers' entire field sales staff underwent comprehensive training on the new building code and strength design method. Powers' engineers are well versed on the changing code requirements and are particularly knowledgeable about anchoring design. Consider Powers Fasteners your source for current concrete anchor purchases or specifications!

D E S I G N A N C H O R I N G + S Y S T E M S



Power-Stud™ + SD1



CARBON

POWER-STUD™ + SD1

Carbon steel body and carbon steel clip.

STRENGTH DESIGN		NEW
UNCRACKED CONCRETE	CRACKED CONCRETE	HEADMARK
YES	YES*	+1

*Excluding 1/4" Diameter

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
07400	7400SD1	Power-Stud+ SD1	1/4" x 1-3/4"	100	500
07402	7402SD1	Power-Stud+ SD1	1/4" x 2-1/4"	100	500
07404	7404SD1	Power-Stud+ SD1	1/4" x 3-1/4"	100	500
07410	7410SD1	Power-Stud+ SD1	3/8" x 2-1/4"	100	500
07412	7412SD1	Power-Stud+ SD1	3/8" x 2-3/4"	100	500
07413	7413SD1	Power-Stud+ SD1	3/8" x 3"	100	500
07414	7414SD1	Power-Stud+ SD1	3/8" x 3-1/2"	100	500
07415	7415SD1	Power-Stud+ SD1	3/8" x 3-3/4"	100	500
07416	7416SD1	Power-Stud+ SD1	3/8" x 5"	100	500
07417	7417SD1	Power-Stud+ SD1	3/8" x 7"	100	500
07420	7420SD1	Power-Stud+ SD1	1/2" x 2-3/4"	100	500
07422	7422SD1	Power-Stud+ SD1	1/2" x 3-3/4"	100	500
07423	7423SD1	Power-Stud+ SD1	1/2" x 4-1/4"	100	500
07424	7424SD1	Power-Stud+ SD1	1/2" x 5-1/2"	100	500
07426	7426SD1	Power-Stud+ SD1	1/2" x 7"	100	500
07427	7427SD1	Power-Stud+ SD1	1/2" x 8-1/2"	100	500
07430	7430SD1	Power-Stud+ SD1	5/8" x 3-1/2"	100	500
07432	7432SD1	Power-Stud+ SD1	5/8" x 4-1/2"	100	500
07433	7433SD1	Power-Stud+ SD1	5/8" x 5"	100	500
07434	7434SD1	Power-Stud+ SD1	5/8" x 6"	100	500

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
07436	7436SD1	Power-Stud+ SD1	5/8" x 7"	100	500
07438	7438SD1	Power-Stud+ SD1	5/8" x 8-1/2"	100	500
07439	7439SD1	Power-Stud+ SD1	5/8" x 10"	100	500
07440	7440SD1	Power-Stud+ SD1	3/4" x 4-1/4"	100	500
07441	7441SD1	Power-Stud+ SD1	3/4" x 4-3/4"	100	500
07442	7442SD1	Power-Stud+ SD1	3/4" x 5-1/2"	100	500
07444	7444SD1	Power-Stud+ SD1	3/4" x 6-1/4"	100	500
07446	7446SD1	Power-Stud+ SD1	3/4" x 7"	100	500
07448	7448SD1	Power-Stud+ SD1	3/4" x 8-1/2"	100	500
07449	7449SD1	Power-Stud+ SD1	3/4" x 10"	100	500
07450	7450SD1	Power-Stud+ SD1	7/8" x 6"	100	500
07451	7451SD1	Power-Stud+ SD1	3/4" x 12"	100	500
07452	7452SD1	Power-Stud+ SD1	7/8" x 8"	100	500
07454	7454SD1	Power-Stud+ SD1	7/8" x 10"	100	500
07461	7461SD1	Power-Stud+ SD1	1" x 6"	100	500
07463	7463SD1	Power-Stud+ SD1	1" x 9"	100	500
07465	7465SD1	Power-Stud+ SD1	1" x 12"	100	500
07473	7473SD1	Power-Stud+ SD1	1-1/4" x 9"	100	500
07475	7475SD1	Power-Stud+ SD1	1-1/4" x 12"	100	500

- Most Sizes in Stock
- Cracked and Uncracked Concrete
- Grout Filled Masonry

P O W E R S F A S T E N E R S S T R E N G T H

GENERAL ANCHORING APPLICATIONS

Power-Stud™ + SD2



Stainless Steel Clip

Carbon Steel Bolt

CARBON

POWER-STUD™ + SD2

Carbon steel body and stainless steel clip. Premium performance in cracked concrete.

STRENGTH DESIGN		NEW
UNCRACKED CONCRETE	CRACKED CONCRETE	HEADMARK
YES	YES	+2

CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
7413SD2	Power-Stud+ SD2	3/8" x 3"	50	300
7414SD2	Power-Stud+ SD2	3/8" x 3-1/2"	50	300
7415SD2	Power-Stud+ SD2	3/8" x 3-3/4"	50	300
7416SD2	Power-Stud+ SD2	3/8" x 5"	50	300
7422SD2	Power-Stud+ SD2	1/2" x 3-3/4"	50	200
7423SD2	Power-Stud+ SD2	1/2" x 4-1/2"	50	200
7424SD2	Power-Stud+ SD2	1/2" x 5-1/2"	50	150
7426SD2	Power-Stud+ SD2	1/2" x 7"	25	100
7427SD2	Power-Stud+ SD2	1/2" x 8-1/2"	25	100

CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
7435SD2	Power-Stud+ SD2	5/8" x 4-3/4"	25	100
7433SD2	Power-Stud+ SD2	5/8" x 5"	25	100
7434SD2	Power-Stud+ SD2	5/8" x 6"	25	75
7436SD2	Power-Stud+ SD2	5/8" x 7"	25	75
7438SD2	Power-Stud+ SD2	5/8" x 8-1/2"	25	75
7442SD2	Power-Stud+ SD2	3/4" x 5-1/2"	20	60
7444SD2	Power-Stud+ SD2	3/4" x 6-1/4"	20	60
7446SD2	Power-Stud+ SD2	3/4" x 7"	20	60
7448SD2	Power-Stud+ SD2	3/4" x 8-1/2"	10	60

- All Sizes in Stock
- Cracked and Uncracked Concrete
- Premium Performance

Powers' Solutions 2009 & Beyond

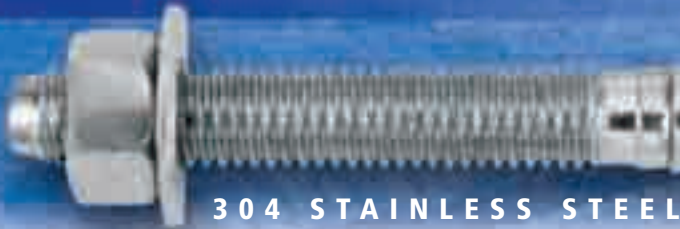


DESIGN ANCHORING + SYSTEMS



HANDRAILS

Power-Stud™ + SD4



Stainless Steel Clip



Stainless Steel Bolt



POWER-STUD™ + SD4

Type 304 stainless steel body plus stainless steel clip.

STRENGTH DESIGN		NEW HEADMARK
UNCRACKED CONCRETE	CRACKED CONCRETE	
YES	YES*	+4

*Excluding 1/4" Diameter

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
07300	7300SD4	Power-Stud+ SD4 SS	1/4" x 1-2/4"	100	500
07302	7302SD4	Power-Stud+ SD4 SS	1/4" x 2-1/4"	100	500
07304	7304SD4	Power-Stud+ SD4 SS	1/4" x 3-1/4"	100	500
07310	7310SD4	Power-Stud+ SD4 SS	3/8" x 2-1/4"	100	500
07312	7312SD4	Power-Stud+ SD4 SS	3/8" x 2-3/4"	100	500
07313	7313SD4	Power-Stud+ SD4 SS	3/8" x 3"	100	500
07314	7314SD4	Power-Stud+ SD4 SS	3/8" x 3-1/2"	100	500
07315	7315SD4	Power-Stud+ SD4 SS	3/8" x 3-3/4"	100	500
07316	7316SD4	Power-Stud+ SD4 SS	3/8" x 5"	100	500
07320	7320SD4	Power-Stud+ SD4 SS	1/2" x 2-3/4"	100	500
07322	7322SD4	Power-Stud+ SD4 SS	1/2" x 3-2/4"	100	500
07323	7323SD4	Power-Stud+ SD4 SS	1/2" x 4-1/2"	100	500
07324	7324SD4	Power-Stud+ SD4 SS	1/2" x 5-1/2"	100	500
07326	7326SD4	Power-Stud+ SD4 SS	1/2" x 7"	100	500
07330	7330SD4	Power-Stud+ SD4 SS	5/8" x 3-1/2"	100	500
07332	7332SD4	Power-Stud+ SD4 SS	5/8" x 4-1/2"	100	500

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
07333	7333SD4	Power-Stud+ SD4 SS	5/8" x 5"	100	500
07334	7334SD4	Power-Stud+ SD4 SS	5/8" x 6"	100	500
07336	7336SD4	Power-Stud+ SD4 SS	5/8" x 7"	100	500
07338	7338SD4	Power-Stud+ SD4 SS	5/8" x 8-1/2"	100	500
07340	7340SD4	Power-Stud+ SD4 SS	3/4" x 4-1/4"	100	500
07341	7341SD4	Power-Stud+ SD4 SS	3/4" x 4-3/4"	100	500
07342	7342SD4	Power-Stud+ SD4 SS	3/4" x 5-1/2"	100	500
07344	7344SD4	Power-Stud+ SD4 SS	3/4" x 6-1/2"	100	500
07346	7346SD4	Power-Stud+ SD4 SS	3/4" x 7"	100	500
07348	7348SD4	Power-Stud+ SD4 SS	3/4" x 8-1/2"	100	500
07349	7349SD4	Power-Stud+ SD4 SS	3/4" x 10"	100	500
07352	7352SD4	Power-Stud+ SD4 SS	7/8" x 8"	100	500
07361	7361SD4	Power-Stud+ SD4 SS	1" x 6"	100	500
07363	7363SD4	Power-Stud+ SD4 SS	1" x 9"	100	500
07365	7365SD4	Power-Stud+ SD4 SS	1" x 12"	100	500

• Stock Expected Spring 2010

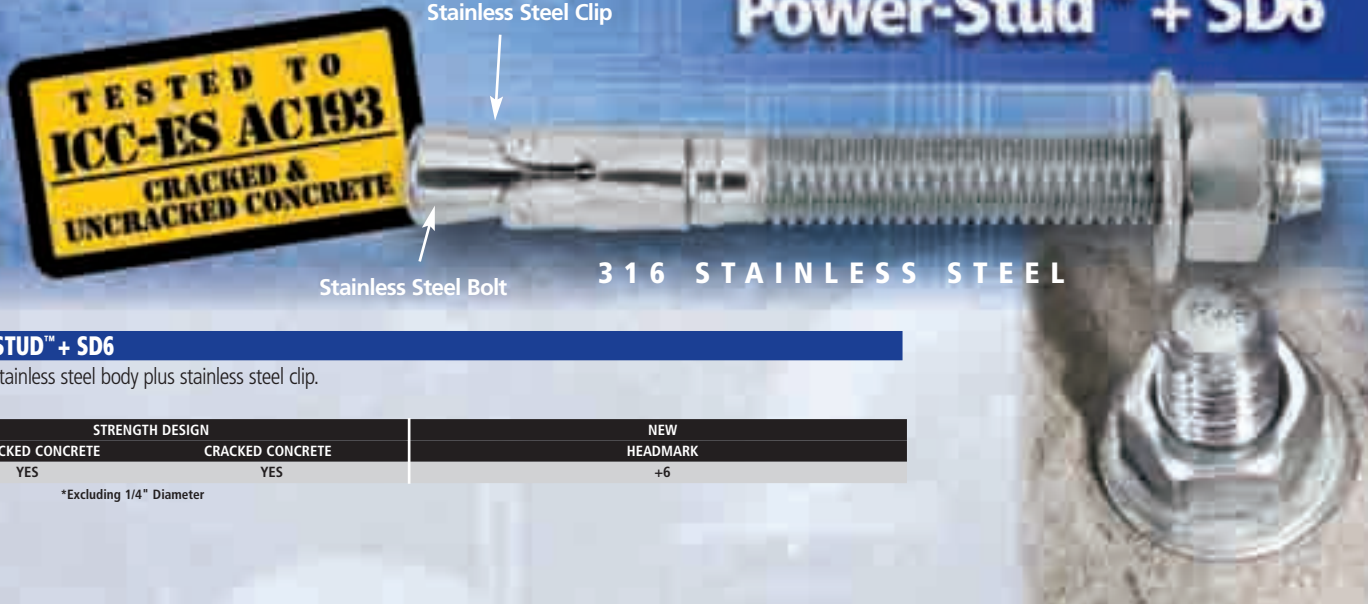
Powers' Solutions 2009 & Beyond



P O W E R S F A S T E N E R S S T R E N G T H

SEATING

Power-Stud™ + SD6



POWER-STUD™ + SD6

Type 316 stainless steel body plus stainless steel clip.

STRENGTH DESIGN		NEW
UNCRACKED CONCRETE	CRACKED CONCRETE	HEADMARK
YES	YES	+6

*Excluding 1/4" Diameter

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
07600	7600SD5	Power-Stud+ SD6 SS	1/4" x 1-3/4"	100	500
07602	7602SD5	Power-Stud+ SD6 SS	1/4" x 2-1/4"	100	500
07604	7604SD5	Power-Stud+ SD6 SS	1/4" x 3-1/4"	100	500
07610	7610SD5	Power-Stud+ SD6 SS	3/8" x 2-1/4"	100	500
07612	7612SD5	Power-Stud+ SD6 SS	3/8" x 2-3/4"	100	500
07613	7613SD5	Power-Stud+ SD6 SS	3/8" x 3"	100	500
07614	7614SD5	Power-Stud+ SD6 SS	3/8" x 3-1/2"	100	500
07615	7615SD5	Power-Stud+ SD6 SS	3/8" x 3-3/4"	100	500
07616	7616SD5	Power-Stud+ SD6 SS	3/8" x 5"	100	500
07620	7620SD5	Power-Stud+ SD6 SS	1/2" x 2-3/4"	100	500
07622	7622SD5	Power-Stud+ SD6 SS	1/2" x 3-3/4"	100	500
07623	7623SD5	Power-Stud+ SD6 SS	1/2" x 4-1/2"	100	500
07624	7624SD5	Power-Stud+ SD6 SS	1/2" x 5-1/2"	100	500

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
07626	7626SD5	Power-Stud+ SD6 SS	1/2" x 7"	100	500
07630	7630SD5	Power-Stud+ SD6 SS	5/8" x 3-1/2"	100	500
07632	7632SD5	Power-Stud+ SD6 SS	5/8" x 4-1/2"	100	500
07633	7633SD5	Power-Stud+ SD6 SS	5/8" x 5"	100	500
07634	7634SD5	Power-Stud+ SD6 SS	5/8" x 6"	100	500
07636	7636SD5	Power-Stud+ SD6 SS	5/8" x 7"	100	500
07638	7638SD5	Power-Stud+ SD6 SS	5/8" x 8-1/2"	100	500
07640	7640SD5	Power-Stud+ SD6 SS	3/4" x 4-1/4"	100	500
07641	7641SD5	Power-Stud+ SD5 SS	3/4" x 4-3/4"	100	500
07642	7642SD5	Power-Stud+ SD6 SS	3/4" x 5-1/2"	100	500
07644	7644SD5	Power-Stud+ SD6 SS	3/4" x 6-1/4"	100	500
07646	7646SD5	Power-Stud+ SD6 SS	3/4" x 7"	100	500
07648	7648SD5	Power-Stud+ SD6 SS	3/4" x 8-1/2"	100	500

• Stock Expected Summer 2010

D E S I G N A N C H O R I N G + S Y S T E M S

WATER TREATMENT

Wedge-Bolt® +



WEDGE-BOLT+

Blue Tip – Standard Fixture Hole Clearance.

STRENGTH DESIGN			NEW HEADMARK
UNCRACKED CONCRETE	CRACKED CONCRETE		DIAMETER, LENGTH AND "+" SIGN
YES	YES*		

*Excluding 1/4" Diameter

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
07204	*7204SD	Wedge-Bolt+ SD BT	1/4" x 1-1/4"	100	600
07206	*7206SD	Wedge-Bolt+ SD BT	1/4" x 1-3/4"	100	600
07208	7208SD	Wedge-Bolt+ SD BT	1/4" x 2-1/4"	100	600
07210	7210SD	Wedge-Bolt+ SD BT	1/4" x 3"	100	500
07220	*7220SD	Wedge-Bolt+ SD BT	3/8" x 1-3/4"	50	300
07222	7222SD	Wedge-Bolt+ SD BT	3/8" x 2-1/2"	50	300
07224	7224SD	Wedge-Bolt+ SD BT	3/8" x 3"	50	250
07226	7226SD	Wedge-Bolt+ SD BT	3/8" x 4"	50	250
07228	7228SD	Wedge-Bolt+ SD BT	3/8" x 5"	50	250
07230	7230SD	Wedge-Bolt+ SD BT	3/8" x 6"	50	150
	*7240SD	Wedge-Bolt+ SD BT	1/2" x 2"	50	200
07242	*7242SD	Wedge-Bolt+ SD BT	1/2" x 2-1/2"	50	200
07244	7244SD	Wedge-Bolt+ SD BT	1/2" x 3"	50	150
07246	7246SD	Wedge-Bolt+ SD BT	1/2" x 4"	50	150

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
07248	7248SD	Wedge-Bolt+ SD BT	1/2" x 5"	25	100
07250	7250SD	Wedge-Bolt+ SD BT	1/2" x 6"	25	75
	7268SD	Wedge-Bolt+ SD BT	1/2" X 6-1/2"	25	75
	7252SD	Wedge-Bolt+ SD BT	1/2" X 8"	25	75
07260	*7260SD	Wedge-Bolt+ SD BT	5/8" x 3"	25	100
07262	7262SD	Wedge-Bolt+ SD BT	5/8" x 4"	25	100
07264	7264SD	Wedge-Bolt+ SD BT	5/8" X 5"	25	75
07266	7266SD	Wedge-Bolt+ SD BT	5/8" X 6"	25	75
	7270SD	Wedge-Bolt+ SD BT	5/8" x 8"	25	75
	*7280SD	Wedge-Bolt+ SD BT	3/4" x 3"	25	75
07282	*7282SD	Wedge-Bolt+ SD BT	3/4" x 4"	20	60
07284	7284SD	Wedge-Bolt+ SD BT	3/4" x 5"	20	60
07286	7286SD	Wedge-Bolt+ SD BT	3/4" x 6"	20	60
07288	7288SD	Wedge-Bolt+ SD BT	3/4" x 8"	10	40
	7290SD	Wedge-Bolt+ SD BT	3/4" x 10"	10	30

The published size includes the diameter and length of the anchor measured from under the head. Wedge-Bolt is marked with a blue tip and must be installed with a matched tolerance Wedge-bit.

* Lengths are less than the standard length for strength design

- All Sizes in Stock
- Good Performance Close to Edges

POWERS FASTENERS STRENGTH



SHELVING, FENCING

Power-Bolt® +



HIGH LOAD ANCHOR

POWER-BOLT® +

Heavy duty sleeve style anchor.

STRENGTH DESIGN						NEW HEADMARK					
UNCRACKED CONCRETE			CRACKED CONCRETE			LENGTH CODE AND "+" SIGN					
YES			YES*								
*Excluding 1/4" Diameter											
OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.	OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
06900	6900SD	Power-Bolt+ SD CS HH	1/4" x 1"	100	500	06940	6940SD	Power-Bolt+ SD CS HH	5/8" X 3"	100	500
06902	6902SD	Power-Bolt+ SD CS HH	1/4" x 1-3/4"	100	500	06942	6942SD	Power-Bolt+ SD CS HH	5/8" X 4"	100	500
06906	6906SD	Power-Bolt+ SD CS HH	1/4" x 3"	100	500	06944	6944SD	Power-Bolt+ SD CS HH	5/8" x 5"	100	500
06907	6907SD	Power-Bolt+ SD CS HH	5/16" x 1-3/4"	100	500	06945	6945SD	Power-Bolt+ SD CS HH	5/8" x 6"	100	500
06908	6908SD	Power-Bolt+ SD CS HH	5/16" x 2-1/2"	100	500	06947	6947SD	Power-Bolt+ SD CS HH	5/8" x 8-1/2"	100	500
06909	6909SD	Power-Bolt+ SD CS HH	5/16" x 3-1/2"	100	500	06950	6950SD	Power-Bolt+ SD CS HH	3/4" x 3-1/4"	100	500
06910	6910SD	Power-Bolt+ SD CS HH	3/8" x 2-1/4"	100	500	06952	6952SD	Power-Bolt+ SD CS HH	3/4" x 4-1/4"	100	500
06911	6911SD	Power-Bolt+ SD CS HH	3/8" x 1-7/8"	100	500	06954	6954SD	Power-Bolt+ SD CS HH	3/4" x 5-1/4"	100	500
06913	6913SD	Power-Bolt+ SD CS HH	3/8" x 3"	100	500	06956	6956SD	Power-Bolt+ SD CS HH	3/4" x 7-1/4"	100	500
06914	6914SD	Power-Bolt+ SD CS HH	3/8" x 3-1/3"	100	500	06957	6957SD	Power-Bolt+ SD CS HH	3/4" x 8-1/4"	100	500
06916	6916SD	Power-Bolt+ SD CS HH	3/8" x 4"	100	500	06981	6981SD	Power-Bolt+ SD CS FH	3/8" x 3-3/4"	100	500
06930	6930SD	Power-Bolt+ SD CS HH	1/2" x 3/4"	100	500	06982	6982SD	Power-Bolt+ SD CS FH	3/8" x 5"	100	500
06932	6932SD	Power-Bolt+ SD CS HH	1/2" x 3-3/4"	100	500	06983	6983SD	Power-Bolt+ SD CS FH	3/8" x 6"	100	500
06934	6934SD	Power-Bolt+ SD CS HH	1/2" x 4-3/4"	100	500	06984	6984SD	Power-Bolt+ SD CS FH	1/2" x 5"	100	500
06936	6936SD	Power-Bolt+ SD CS HH	1/2" x 5-3/4"	100	500	06987	6987SD	Power-Bolt+ SD CS FH	5/8" x 5-1/2"	100	500

- Stock Expected Summer 2010
- Heavy Duty Applications

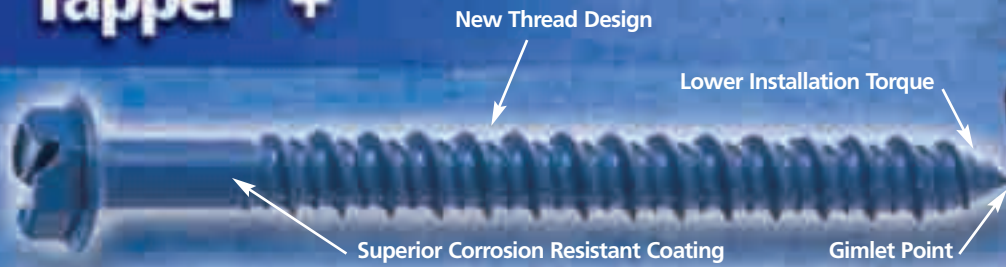
Powers' Solutions 2009 & Beyond



DESIGN ANCHORING + SYSTEMS

OVERHEAD AND CRITICAL ANCHORING

Tapper® +



TAPPER +

Screw anchor for light to medium duty applications. Perma-Seal coated for corrosion resistance.

STRENGTH DESIGN UNCRACKED CONCRETE YES						HEADMARK LENGTH CODE AND "+" SIGN	
--	--	--	--	--	--	--------------------------------------	--

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
02700	2700SD	Tapper+ SD HWH	3/16" x 1-1/4"	100	500
02792	2792SD	Tapper+ SD HWH	3/16" x 1-3/4"	100	500
02704	2704SD	Tapper+ SD HWH	3/16" x 2-1/4"	100	500
02706	2706SD	Tapper+ SD HWH	3/16" x 2-3/4"	100	500
02708	2708SD	Tapper+ SD HWH	3/16" x 3-1/4"	100	500
02710	2710SD	Tapper+ SD HWH	3/16" x 3-3/4"	100	500
02712	2712SD	Tapper+ SD HWH	3/16" x 4"	100	500
02720	2720SD	Tapper+ SD HWH	1/4" x 1-1/4"	100	500
02722	2722SD	Tapper+ SD HWH	1/4" x 1-3/4"	100	500
02724	2724SD	Tapper+ SD HWH	1/4" x 2-1/4"	100	500
02726	2726SD	Tapper+ SD HWH	1/4" x 2-3/4"	100	500
02728	2728SD	Tapper+ SD HWH	1/4" x 3-1/4"	100	500
02730	2730SD	Tapper+ SD HWH	1/4" x 3-3/4"	100	500
02732	2732SD	Tapper+ SD HWH	1/4" x 4"	100	500
02736	2736SD	Tapper+ SD HWH	1/4" x 6"	100	500

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
02740	2740SD	Tapper+ SD PFH	3/16" x 1-1/4"	100	500
02742	2742SD	Tapper+ SD PFH	3/16" x 1-3/4"	100	500
02744	2744SD	Tapper+ SD PFH	3/16" x 2-1/4"	100	500
02746	2746SD	Tapper+ SD PFH	3/16" x 2-3/4"	100	500
02748	2749SD	Tapper+ SD PFH	3/16" x 3-1/4"	100	500
02750	2750SD	Tapper+ SD PFH	3/16" x 3-3/4"	100	500
02752	2752SD	Tapper+ SD PFH	3/16" x 4"	100	500
02760	2760SD	Tapper+ SD PFH	1/4" x 1-1/4"	100	500
02762	2762SD	Tapper+ SD PFH	1/4" x 1-3/4"	100	500
02764	2764SD	Tapper+ SD PFH	1/4" x 2-1/4"	100	500
02766	2766SD	Tapper+ SD PFH	1/4" x 2-3/4"	100	500
02768	2768SD	Tapper+ SD PFH	1/4" x 3-1/4"	100	500
02770	2770SD	Tapper+ SD PFH	1/4" x 3-3/4"	100	500
02772	2772SD	Tapper+ SD PFH	1/4" x 4"	100	500
02774	2774SD	Tapper+ SD PFH	1/4" x 5"	100	500
02776	2776SD	Tapper+ SD PFH	1/4" x 6"	100	500

- Stock Expected Spring 2010
- Great Also for CMU, Brick & Wood

**Powers'
Solutions
2009 &
Beyond**



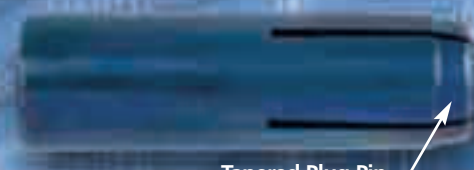
P O W E R S F A S T E N E R S S T R E N G T H

EXTERIOR METAL FIXTURES

Smart Dropin™ +



Fewer Hammer Blows



Tapered Plug Pin

DROPIN+

All-steel machine bolt anchor.

STRENGTH DESIGN
UNCRACKED CONCRETE

YES

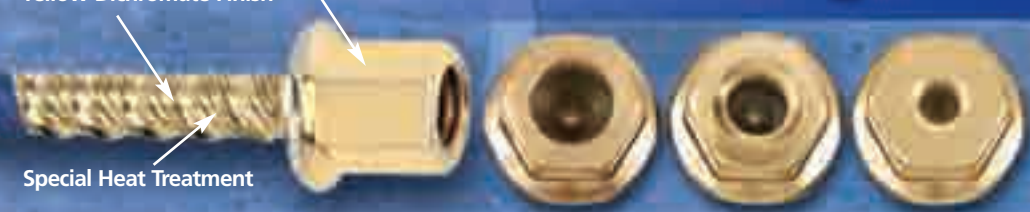
OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
06204	6204SD	Dropin+ 304SS	1/4"	100	500
06206	6206SD	Dropin+ 304SS	3/8"	100	500
06208	6208SD	Dropin+ 304SS	1/2"	100	500
06210	6210SD	Dropin+ 304SS	5/8"	100	500
06212	6212SD	Dropin+ 304SS	3/4"	100	500
06224	6224SD	Dropin+ 316SS	1/4"	100	500
06226	6226SD	Dropin+ 316SS	3/8"	100	500
06228	6228SD	Dropin+ 316SS	1/2"	100	500
06230	6230SD	Dropin+ 316SS	5/8"	100	500
06232	6232SD	Dropin+ 316SS	3/4"	100	500

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
06304	6304SD	Dropin+ CS	1/4"	100	500
06306	6306SD	Dropin+ CS	3/8"	100	500
06308	6308SD	Dropin+ CS	1/2"	100	500
06312	6312SD	Dropin+ CS	3/4"	100	500
06320	6320SD	Dropin+ CS	5/8"	100	500
06324	6324SD	Dropin+ CS Lip	1/4"	100	500
06326	6326SD	Dropin+ CS Lip	3/8"	100	500
06328	6328SD	Dropin+ CS Lip	1/2"	100	500
06330	6330SD	Dropin+ CS Coil	1/2"	100	500
06332	6332SD	Dropin+ CS Coil	3/4"	100	500

• Stock Expected Summer 2010



Alloy Steel
Yellow Dichromate Finish
Special Heat Treatment



Vertigo™ +

• All Sizes In Stock

VERTIGO+

One-piece, all steel threaded fastening system. Free Wedge-Bit with every box.

STRENGTH DESIGN

UNCRACKED CONCRETE

CRACKED CONCRETE

YES

YES*

NEW CAT. NO.	ROD SIZE	SCREW SHANK SIZE & LENGTH	THREAD STYLE	PRE-DRILL DIAMETER	FINISH	STD. BOX	STD. CTN.
7180SD	1/4"	3/8" x 2-1/8"	Wedge-Bolt+	3/8" Wedge-Bit	Yellow Dichromate	50	250
7181SD	3/8"	3/8" x 2-1/8"	Wedge-Bolt+	3/8" Wedge-Bit	Yellow Dichromate	50	250
7182SD	1/2"	3/8" x 2-1/8"	Wedge-Bolt+	3/8" Wedge-Bit	Yellow Dichromate	50	250

DESIGN ANCHORING + SYSTEMS



ROD & SUSPENDED CONDUIT

SPRINKLER SYSTEMS



Snake+™ Anchor



SNAKE+ ANCHOR

All steel, self-tapping machine bolt anchor.

STRENGTH DESIGN	
UC	CC
YES	YES

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
	6400SD	SNAKE+ Internally Threaded	1/4"	50	500
	6402SD	SNAKE+ Setting Tool	1/4"	1	250
6401	6401SD	SNAKE+ Internally Threaded	3/8"	50	500
	6403SD	SNAKE+ Internally Threaded	1/2"	50	300
06407	6407SD	SNAKE+ SD Setting Tool	3/8"	1	250
	6404SD	SNAKE+ SD Setting Tool	1/2"	1	100

- 1/2" Diameter in Stock
- 1/4" Diameter Expected Spring 2010



Powers' Solutions 2009 & Beyond

P O W E R S F A S T E N E R S S T R E N G T H



SUSPENDED CONDUIT

AC100+Gold®

VINYLESTER ADHESIVE

CODE LISTED
ICC-ES ESR-2582
UNCRACKED CONCRETE

AC100+ GOLD STATE DOT APPROVALS

Arkansas	Minnesota
Connecticut	Nebraska
Illinois	New York
Indiana	Oregon
Maine	Virginia
Michigan	Washington

Table reflects DOT Approvals as of November 2009. For current listing please visit www.powers.com

AC100+GOLD

Vinylester Adhesive.

STRENGTH DESIGN						
UNCRACKED CONCRETE						
YES						
OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	BOX	CTN.	
08462	8462SD	AC100+Gold Push-Pak	5 oz. Coax.	12	36	
08478	8478SD	AC100+Gold Quik-Shot	10 oz. Coax.	12	36	
08480	8480SD	AC100+Gold	8 oz. SBS	-	12	
08486	8486SD	AC100+Gold	12 oz. SBS	-	12	
08490	8490SD	AC100+Gold	28 oz. SBS	-	8	

PE1000+®

PURE EPOXY

CODE LISTED
ICC-ES ESR-2583
CRACKED & UNCRACKED CONCRETE

PE1000+ STATE DOT APPROVALS

Indiana	Oregon
Iowa	Tennessee
Georgia	Texas
New Mexico	Utah
New York	Virginia
Ohio	Washington

Table reflects DOT Approvals as of November 2009. For current listing please visit www.powers.com

PE1000+

High Strength Epoxy.

STRENGTH DESIGN			
		UC	CC
		YES	YES
OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	BOX.
-	0500SD	PE1000+ 13 oz.	12
-	0502SD	PE1000+ 20 oz.	12

DESIGN ANCHORING + SYSTEMS

Safe-T+ Pin™



SAFE-T+ PIN

All steel one piece nail drive anchor for concrete, brick or stone. Great for multiple point fastening.

STRENGTH DESIGN	
UNCRACKED CONCRETE	CRACKED CONCRETE
YES	YES*

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	DRILL DIA.	STD. BOX	STD. CTN.
	2800SD	6mm (1/4") x 1-3/8"	6mm	100	500
	2801SD	6mm (1/4") x 2-1/2"	6mm	100	500

- All Sizes in Stock

Atomic Undercut™



ATOMIC UNDERCUT

Undercutting anchor for top performance in cracked and uncracked concrete.

STRENGTH DESIGN	
UNCRACKED CONCRETE	CRACKED CONCRETE
YES	YES

NEW CAT. NO.	DESCRIPTION	DRILL DIA.	STD. BOX	STD. CTN.
03100SD	Atomic Undercut+ (A36)	3/8" x 6"	50	300
03102SD	Atomic Undercut+ (A36)	3/8" x 6" ET	50	300
03104SD	Atomic Undercut+ (B7)	3/8" x 7-1/4"	50	200
03106SD	Atomic Undercut+ (B7)	3/8" x 7-1/4" ET	50	200
03108SD	Atomic Undercut+ (A36)	1/2" x 7-3/8"	25	100
03110SD	Atomic Undercut+ (A36)	1/2" x 7-3/8" ET	25	100
03112SD	Atomic Undercut+ (B7)	1/2" x 8-3/8"	25	100
03114SD	Atomic Undercut+ (B7)	1/2" x 8-3/8" ET	25	100
03116SD	Atomic Undercut+ (B7)	1/2" x 10-1/8"	25	100
03118SD	Atomic Undercut+ (B7)	1/2" x 10-1/8" ET	25	100

NEW CAT. NO.	DESCRIPTION	DRILL DIA.	STD. BOX	STD. CTN.
03120SD	Atomic Undercut+ (A36)	5/8" x 8"	10	40
03122SD	Atomic Undercut+ (A36)	5/8" x 8" ET	10	40
03124SD	Atomic Undercut+ (B7)	5/8" x 11"	10	30
03126SD	Atomic Undercut+ (B7)	5/8" x 11" ET	10	30
03128SD	Atomic Undercut+ (B7)	5/8" x 12-1/2"	10	30
03130SD	Atomic Undercut+ (B7)	5/8" x 12-1/2" ET	10	30
03132SD	Atomic Undercut+ (A36)	3/4" x 8-1/2"	10	40
03134SD	Atomic Undercut+ (A36)	3/4" x 8-1/2" ET	10	40
03136SD	Atomic Undercut+ (B7)	3/4" x 13-1/2"	10	30
03138SD	Atomic Undercut+ (B7)	3/4" x 13-1/2" ET	10	30

- Stock Expected Fall 2010

P O W E R S F A S T E N E R S S T R E N G T H

CODE LISTED
ICC-ES ESR-3066
UNCRACKED CONCRETE

T308+™



T308+ STATE DOT APPROVALS

Alabama	Nebraska
California	Nevada
Florida	New Hampshire
Georgia	New York
Indiana	North Carolina
Iowa	Ohio
Kansas	Pennsylvania
Maine	Tennessee
Michigan	Texas
Missouri	Virginia

Table reflects DOT Approvals as of November 2009.
 For current listing please visit www.powers.com

STRENGTH DESIGN
UNCRACKED CONCRETE
 YES

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
	8558SD	T308+ Quik-Shot Cartridge	8.5 oz.	12	24
	8503SD	T308+ SBS Cartridge	14 oz.	12	-
	8523SD	T308+ SBS Cartridge	21.5 oz.	12	-
	8536SD	T308+ SBS Cartridge	51 oz.	8	-

• All Sizes in Stock

Powers' Solutions 2009 & Beyond



D E S I G N A N C H O R I N G + S Y S T E M S



WARNING! WARNING!

THE BUILDING CODE HAS CHANGED. CODE LISTED

Building Code Requirements

2006 IBC Code by State

STATE	JURISDICTION	IBC	ZONE	REQUIRED
AL	Alabama	2006	Seismic	✓
AK	Alaska	2006	Seismic	✓
AZ	Arizona	2006	Seismic	✓
AR	Arkansas	2006	Seismic	✓
CA	California	2006	Seismic	✓
CO	Colorado	2006	Seismic	✓
GA	Georgia	2006	Seismic	✓
HI	Hawaii	2006	Seismic	✓
IL	Illinois	2006	Seismic	✓
IN	Indiana	2006	Seismic	✓
IA	Iowa	2006	Seismic	✓
KY	Kentucky	2006	Seismic	✓
LA	Louisiana	2006	Seismic	✓
MD	Maryland	2006	Seismic	✓
MI	Michigan	2006	Seismic	✓
MN	Minnesota	2006	Seismic	✓
MS	Mississippi	2006	Seismic	✓
MT	Montana	2006	Seismic	✓
NV	Nevada	2006	Seismic	✓
NH	New Hampshire	2006	Seismic	✓
NJ	New Jersey	2006	Seismic	✓
NM	New Mexico	2006	Seismic	✓
NC	North Carolina	2006	Seismic	✓
OH	Ohio	2006	Seismic	✓
OK	Oklahoma	2006	Seismic	✓
OR	Oregon	2006	Seismic	✓
PA	Pennsylvania	2006	Seismic	✓
RI	Rhode Island	2006	Seismic	✓
SC	South Carolina	2006	Seismic	✓
TN	Tennessee	2006	Seismic	✓
UT	Utah	2006	Seismic	✓
VT	Vermont	2006	Seismic	✓
VA	Virginia	2006	Seismic	✓
WA	Washington	2006	Seismic	✓
WV	West Virginia	2006	Seismic	✓
WI	Wisconsin	2006	Seismic	✓

2003 IBC Code Statewide

STATE	JURISDICTION	IBC	ZONE	REQUIRED FOR MECHANICAL EXPANSION ANCHORS
CT	Connecticut	2003	Seismic	✓
FL	Florida	2003	Wind	✓
ID	Idaho	2003	Seismic	✓
KS	Kansas	2003	Seismic	✓
ME	Maine	2003	Seismic	✓
MA	Massachusetts	2003	Seismic	✓
NY	New York	2003	Seismic	✓
TX	Texas	2003	Wind	✓

2003 IBC Code Partial State Implementation

STATE	JURISDICTION	IBC	ZONE	REQUIRED FOR MECHANICAL EXPANSION ANCHORS
DE	Delaware	2003	Seismic	✓
MO	Missouri	2003	Seismic	✓
NE	Nebraska	2003	Seismic	✓
ND	North Dakota	2003	Seismic	✓
SD	South Dakota	2003	Seismic	✓
WY	Wyoming	2003	Seismic	✓



Power-Stud+™ SD1
Carbon Steel Bolt
Carbon Steel Clip
Tension Zone,
Seismic & Wind Loading
Applications



Power-Stud+™ SD2
Carbon Steel Bolt
Stainless Steel Clip
Tension Zone,
Seismic & Wind Loading
Applications

Confused or Have Questions?
Call our Engineering Department at 1(888)745-CODE [2633]

WARNING! WARNING!

ANCHORS ARE NOW REQUIRED IN MOST STATES!

6 Code Listed Anchoring Solutions from Powers Fasteners



CODE LISTED
ICC-ES ESR-2526

Wedge-Bolt+™
All Steel
Screw Bolt
Anchoring Window
Frames, Racking,
Machinery to Concrete



CODE LISTED
ICC-ES ESR-2272

Snake+™
Zinc Plated Carbon Steel
Internally Threaded
Self Tapping Anchor
Overhead Anchoring
with Threaded Rod



CODE LISTED
ICC-ES ESR-2583

PE1000+®
High Strength Epoxy
Rebar Doweling,
Guard Rails, Structural
Anchoring to Concrete

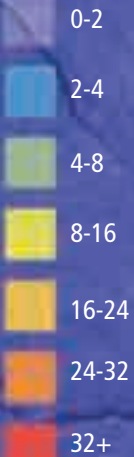


CODE LISTED
ICC-ES ESR-2582

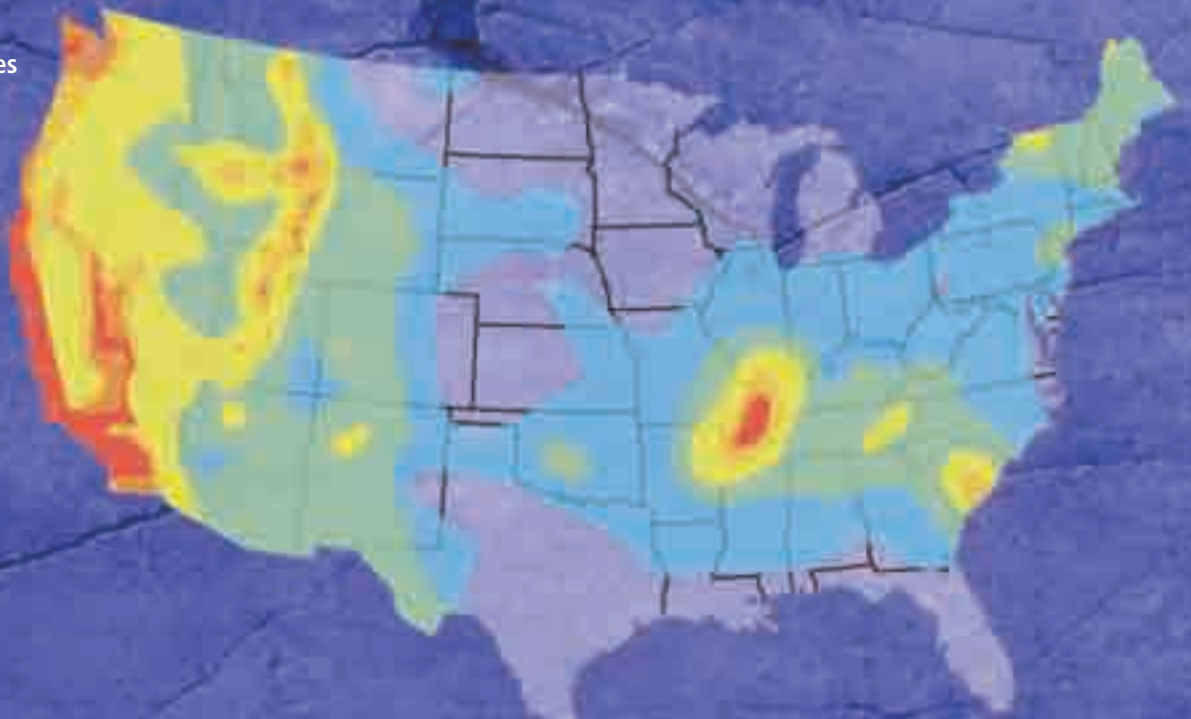
AC100+Gold®
High Strength Adhesive
Tension Zone,
Seismic & Wind Loading
Applications

Seismic Activity Zones %g

Lowest Hazard



Highest Hazard



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	Robert Brito	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	Kyle Thuenemann	972-506-9258	972-506-9290
Denver	2475 West Second Street #35, Denver, CO 80223	Aaron Minnis	303-922-9202	303-922-9228
Detroit	21600 Wyoming Avenue, Oak Park, MI 48237	Glen Gaskill	248-543-8600	248-543-8601
Florida	9208 Palm River Road, Bldg. 3, Suite 305, Tampa, FL 33619	Mark Mamula	813-626-4500	813-626-4545
Houston	13833 North Promenade, Suite 100, Stafford, TX 77477	Chris Salisbury	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	Jack Stewart	714-731-2500	714-731-2566
Maryland	3137-B Pennsy Drive, Landover, MD 20785	Gary Engleman	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	Rick Gruye	612-331-3756	612-331-3549
Nashville/Memphis	221 Blanton Avenue, Nashville, TN 37210	Ira Liss	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	Curtis Fickert	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	Ted McComb	801-466-9428	801-466-3083
San Francisco	28970 Hopkins Street, Suite B+C, Hayward, CA 94545	Dan Mullan	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
Australia	Factory 3, 205 Abbotts Road, Dandenong, South Victoria 3175	Phil Rose	+61 3 8787 5888	+61 3 8787 5899
British Columbia	63 Fawcett Road Coquitlam, V3K 6V2	Distributor	604-540-0200	604-540-0212
Canada	6950 Edwards Blvd. Mississauga Ontario L5T 2W2	Mark Russell	905-673-7295	905-673-6490
China	Metropolitan Business Centre, East Nandan Road, Lane 300, No. 9, Room 604 Xuhui District, Shanghai, China 200030	Jake Olsen	+86-21-3363-2880	+86-21-3363-2881
China	TrIF international, 4E, Building 11, The City of Design, Tianmian Village, Futian, Shenzhen 518000	Tom Nie	86-755-82795378	86-755-82795379
Europe	Westrak 208, 1771 SV Wieringerwerf, Netherlands	Paul Geuvers	+31 888 769 377	+31 227 594 759
Manitoba	1810 Dublin Avenue Man. Winnipeg, R3H 0H3	Distributor	204-633-0064	204-694-1261
New Zealand	PO Box 302 076 North Harbour Auckland	Clay Sesto	+64 9415 2425	+64 9415 2627
Quebec	For name of nearest distributor call Powers Industries Ltd at	Mark Russell	905-673-7295	905-673-6490
Thailand	80/89 MOO4 Petchakasem Road, Bangkae Bangkok 10160	Chalee Surakavanichakorn	+661 826 5821	

LATIN & CARIBBEAN DISTRIBUTION INQUIRIES

COUNTRY/REGION	ADDRESS	CONTACT	PHONE	FAX
Latin America	9208 Palm River Road, Ste 305, Tampa, Florida 33619	Michael Gaffigan	954-914-6665	813-626-4545

LATIN & CARIBBEAN DISTRIBUTION

COUNTRY/REGION	ADDRESS	CONTACT	PHONE	FAX
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 Ntrl., 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	Aceroi Comercial Ecuatoriano S.A., Av. La Prensa N45-14 y Telégrafo 1 – Quito Av. Juan Tanca Marengo Km. 1.7 – Guayaquil	info@acero.comercial.com info@acero.comercial.com	(593-2) 2454 333 (593-4) 2683 060	(593-2) 2454 455 (593-4) 2683 059
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Panama	Centro-Industrial, Via Cincuentenario, No. 7910, Ciudad Panama, Panama		(507) 302-8022	
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	

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