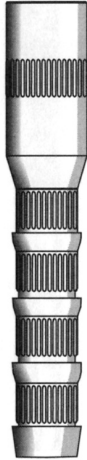




wej-it®

POWER-Sert® High-Performance Drop-In Anchors

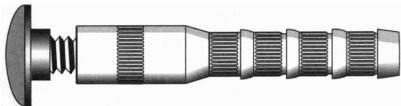


Key Features/Benefits

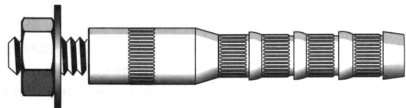
- **High Holding Values.** Epoxy bond adheres to entire length of anchor body, producing excellent ultimate tensile strength.
- **Instant Holding Power.** ¹ Exclusive FRICTION-FIT™ allows immediate installation of fixture to be fastened while epoxy cures.
- **Thru-Hole Installation.** ² Ideal for “in-place” fastening applications. No need to move equipment or fixtures to be fastened.
- **Easy to Install.** No special tools or bits required.
- **Shallow Embedment.** Provides excellent holding value while avoiding rebar and “drill-thru.”
- **Close Edge Distance and Spacing.** Epoxy bond and shallow embedment minimize effects of “cone failure.”
- **Vibration Resistant.** Epoxy bond withstands more seismic vibration loading than most standard mechanical anchors.

Typical Head Styles

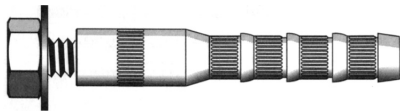
Mushroom Head Bolt (Tamperproof)



Threaded Rod with Nut



Hex Bolt or Screw



Maximum Tensile And Shear Capacity For Static Loads In Concrete

Bolt Size	Thread Depth (in)	Drill Size	Hole Depth	Concrete psi (estimated)	Tensile Strength (lbs)	Source	Shear* Strength (lbs)	Source
1/4	1/2	5/16	1-3/4	4000	2540	1	•	•
5/16	3/4	7/16	2-3/4	4000	6250	1	•	•
3/8	1	1/2	3-1/4	3000	10000	3	7600	2
1/2	1	5/8	4-1/8	3000	19000	3	9245	2
5/8	1-1/2	7/8	6-1/4	3000	19000	3	•	•
3/4	1-1/2	1	7-1/2	3000	46000	3	•	•
1	2-3/4	1-1/2	9-1/2	3000	64000	3	•	•

Sources: 1) United Industries Corp. Internal Laboratory (equipment calibrated by U.S. Testing Co.); 1995. 2) SGS U.S. Testing Co., Inc., Tulsa, OK; 1995-1996 (tested to ASTM E-488 Specifications). 3) Interpolated from independent tests verified by Maximum Technologies, Inc., Kansas City, KS (tested to ASTM E-488 Specifications).

*Shear values dependent on bolt style used.

NOTES:

- ¹ FRICTION-FIT™ without full epoxy cure is for light-duty temporary holding only and produces far less than advertised ultimate holding values.
- ² Pre-drilled hole in fixture must be large enough to accommodate correct size of carbide-drill bit.
- Information provided only for the use of a qualified design engineer. Use of technical data by persons not qualified could cause serious damage, injury, or even death.
- Ultimate values are shown. For static loads, use one-fourth of the maximum tensile and shear capacities for the recommended 4:1 safety factor.
- Install POWER-Sert® anchors only with epoxy supplied with anchors or **wej-it** Fastening Systems branded epoxy products.
- Use cure times recommended by epoxy manufacturer before applying full load to anchor.
- Limited data available at this time. Job-site specific or laboratory testing under specific job-site conditions recommended.

Edge Distance And Spacing Requirements

Embedment (E) in Anchor Diameters (d)	Spacing	Edge Distance
E < 6d (shallow)	2.00E	1.00E
6d ≤ E ≤ 8d (standard)	1.50E	1.00E
8d < E (deep)	1.00E	0.75E



wej-it®

Estimating Guide

Bolt Size	Drill Diameter	Hole Depth	Anchors/Tube	
			1.7 oz Cartridge	22 oz Cartridge
1/4	5/16	1-3/4	75	900
5/16	7/16	2-3/4	18	230
3/8	1/2	3-1/4	15	180
1/2	5/8	4-1/8	10	60
5/8	7/8	6-1/4	3	38
3/4	1	7-1/2	2	20
1	1-1/2	9-1/2	•	4

Number of anchors per cartridge is based on exact volumetric calculations. No allowance has been made for waste.

Order Information

Mfg. Number			Bolt Size	Dimensions (in)
Carbon Steel	Stainless Steel			
Zinc Plated	(303)	(316)		
PS2-14	PSS-14	PS6-14	1/4	5/16 X 1-9/16
PS2-56	PSS-56	PS6-56	5/16	7/16 X 2-3/8
PS2-38	PSS-38	PS6-38	3/8	1/2 X 2-3/4
PS2-12	PSS-12	PS6-12	1/2	5/8 X 3-11/16
PS2-58	PSS-58	PS6-58	5/8	7/8 X 5-3/4
PS2-34	PSS-34	PS6-34	3/4	1 X 6-1/2
PS2-1	PSS-1	PS6-1	1	1-1/2 X 8-1/2

ANSI B94 Standard

Use solid, carbide-tipped drill bits manufactured to ANSI B94 with standard tolerance on the tip end as follows:

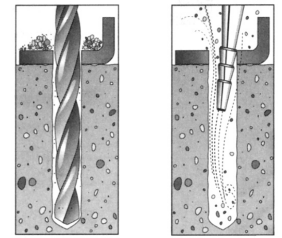
Diameter	Minimum Inches	Maximum Inches
1/4	0.260	0.268
5/16	0.327	0.335
3/8	0.390	0.398
1/2	0.520	0.530
5/8	0.650	0.660
3/4	0.775	0.787
7/8	0.905	0.917
1	1.030	1.042
1-1/8	1.160	1.175
1-1/4	1.285	1.300
1-1/2	1.535	1.550

Note:

All test data derived from independent testing laboratories as indicated. Testing criteria, methods, and equipment differ between sources and, therefore, definitive performance data and holding values should be obtained by the user through laboratory or jobsite testing, utilizing design engineer specified testing criteria, methods, and equipment.

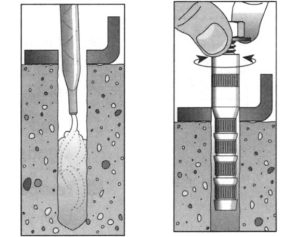
Installation Instructions

1. Select the proper size drill bit from the estimating guide. Drill the hole perpendicular to the work surface.* To assure full holding power, do not ream the hole or allow the drill to wobble.
2. Clean hole with compressed air and a nylon brush.* Dust and debris left in hole will significantly reduce the holding capacity of the anchor.
3. Inject Inject-TITE® Two-Part Structural Epoxy into hole to approximately 1/3 to half full.
4. Choose a bolt equal in length to the thread depth plus the material depth. Thread bolt into POWER-Sert® anchor so that offset is equal to the thickness of material to be fastened. Insert POWER-Sert® anchor into hole to shoulder with slight twisting motion.
5. Drive anchor home with several sharp hammer blows to the head of the nut.
6. Allow epoxy to cure prior to applying maximum load.



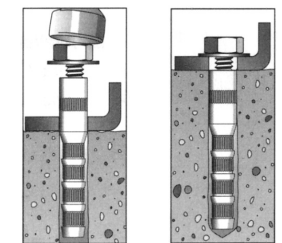
1

2



3

4



5

6

* Always wear safety glasses. Follow the drill manufacturer's safety instructions. Use only solid carbide-tipped drill bits meeting ANSI B94 diameter standards.

VISIT US AT:

www.seaport-marine.com

or

E-MAIL TO:

sales@seaport-marine.com