

POWER-Sert™ High-Performance Anchors

The ultimate problem fixer

Key Features /Benefits

- Slightly larger bottom lobe creates a keying effect at the deepest anchor point
- Provides high holding values
- Exclusive **FRICION-FIT™** allows immediate fastening of fixture while epoxy cures[†]
- No need to move equipment or fixtures to be fastened – ideal for in-place use^{††}
- Easy installation – no special tools required
- Close edge distance and spacing
- Shallow embedment
 - Helps avoid rebar and drill-through
 - Epoxy bond and shallow embedment minimize effects of cone failure
- **Vibration-resistant** – epoxy bond withstands more seismic vibration loading than most standard mechanical anchors



WARNING: NSTB safety recommendations **prohibit** the use of adhesive anchors in sustained overhead load anchoring applications

NOTES:

- † FRICION-FIT™ without full epoxy cure is for light-duty temporary holding only and produces far less than advertised ultimate holding values.
- †† Pre-drilled hole in fixture must be large enough to accommodate correct size of carbide-drill bit.

Order Information

Catalog Number			Mating Bolt Size (in.)	Anchor Size (in.)	Quantity	
Carbon Steel	Stainless Steel				Box	Carton
	303	316				
PS2-14	PSS-14	PS6-14	1/4	5/16 x 1-9/16	100	800
PS2-56	PSS-56	PS6-56	5/16	7/16 x 2-3/8	100	800
PS2-38	PSS-38	PS6-38	3/8	1/2 x 2-3/4	50	400
PS2-12	PSS-12	PS6-12	1/2	5/8 x 3-11/16	25	200
PS2-58	PSS-58	PS6-58	5/8	7/8 x 5-3/4	10	80
PS2-34	PSS-34	PS6-34	3/4	1 x 6-1/2	5	40
PS2-1	PSS-1	PS6-1	1	1-1/2 x 8-1/2	5	15

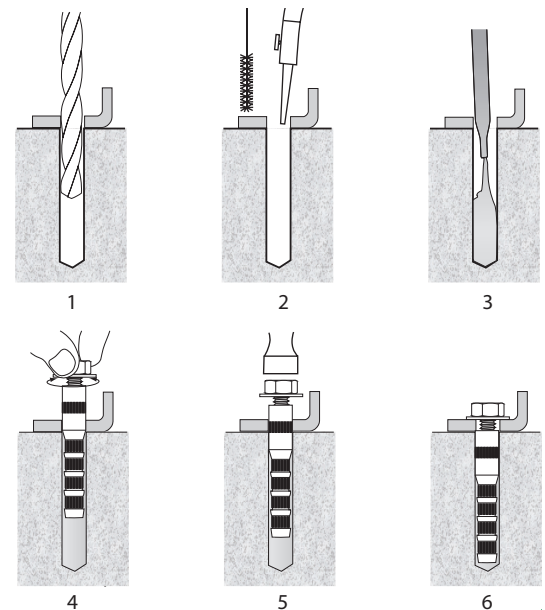
Edge Distance and Spacing Requirements

Catalog No.	Embed. Depth (in.)	Min. Edge Dist. (in.)	Min. Spacing (in.)	Thread Depth (in.)
PS2-14	1-5/8	1-5/8	2-3/8	1/2
PS2-56	2-3/8	2-3/8	4-3/4	3/4
PS2-38	2-3/4	2-3/4	5-1/2	1
PS2-12	3-3/4	3-3/4	7-3/8	1
PS2-58	5-3/4	5-3/4	8-5/8	1-1/2
PS2-34	6-1/2	6-1/2	9-3/4	1-1/2
PS2-1	8-1/2	8-1/2	17	2

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. Thoroughly clean hole with oil-free compressed air and a stiff nylon or wire brush. Repeat cleaning process 3 times. 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. Fill from bottom of hole up.
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 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.

NOTE: Always wear safety glasses. Follow the drill manufacturer's safety instructions. Use only solid carbide-tipped drill bits meeting ANSI B212.15 diameter standards.



Estimating Guide

Bolt Size (in.)	Drill Dia. (in.)	Minimum Hole Depth (in.)	Estimated anchors per cartridge		
			8.5/9.3 oz. Cartridge	22oz. Cartridge	28oz. Cartridge
1/4	5/16	1-3/4	165	463	590
5/16	7/16	2-3/4	52	151	192
3/8	1/2	3-1/4	32	86	110
1/2	5/8	4-1/8	19	51	64
5/8	7/8	6-1/4	6	17	22
3/4	1	7-1/2	5	11	14
1	1-1/2	9-1/2	2	4	5

Maximum Tensile Strengths for Static Loads in 4000 psi Concrete

Carbon Steel					Carbon Steel			
Bolt Size – UNC	Drill Dia. (in.)	Hole Depth (in.)	Inject-TITE™ Ultimate Tensile Strength (lb.)	AWF Ultimate Tensile Strength (lb.)	Slam-TITE™ Drill Dia. (in.)	Slam-TITE Hole Depth (in.)	Slam-TITE Capsule Used	Slam-TITE Ultimate Tensile Strength (lb.)
1/4 – 20	5/16	1-3/4	3380	3543	N/A	N/A	N/A	N/A
5/16 – 18	7/16	2-3/4	7497	7879	1/2	3	3/8	4879
3/8 – 16	1/2	3-1/4	10633	9215	1/2	3-1/2	3/8	9597
1/2 – 13	5/8	4-1/8	15105	13114	5/8	4-1/4	1/2	13142
5/8 – 11	7/8	6-1/4	26298	26298	7/8	6-1/4	7/8	27087
3/4 – 10	1	7-1/2	46000	32430	1	7	7/8	–
1 – 8	1-1/2	9-1/2	64000	–	1-1/2	9	1	–
303 Stainless Steel					303 Stainless Steel			
Bolt Size – UNC	Drill Dia. (in.)	Hole Depth (in.)	Inject-TITE™ Ultimate Tensile Strength (lb.)	AWF Ultimate Tensile Strength (lb.)	Slam-TITE™ Drill Dia. (in.)	Slam-TITE Hole Depth (in.)	Slam-TITE Capsule Used (in.)	Slam-TITE Ultimate Tensile Strength (lb.)
1/4 – 20	5/16	1-3/4	3380	3203	N/A	N/A	N/A	N/A
5/16 – 18	7/16	2-3/4	7197	7606	1/2	3	3/8	6570
3/8 – 16	1/2	3-1/4	9925	9379	1/2	3-1/2	3/8	9679
1/2 – 13	5/8	4-1/8	14805	15650	5/8	4-1/4	1/2	15105
5/8 – 11	7/8	6-1/4	25771	26298	7/8	6-1/4	7/8	25771
3/4 – 10	1	7-1/2	46000	32430	1	7	7/8	–
1 – 8	1-1/2	9-1/2	64000	–	1-1/2	9	1	–
316 Stainless Steel					316 Stainless Steel			
Bolt Size – UNC	Drill Dia. (in.)	Hole Depth (in.)	Inject-TITE™ Ultimate Tensile Strength (lb.)	AWF Ultimate Tensile Strength (lb.)	Slam-TITE™ Drill Dia. (in.)	Slam-TITE Hole Depth (in.)	Slam-TITE Capsule Used (in.)	Slam-TITE Ultimate Tensile Strength (lb.)
1/4 – 20	5/16	1-3/4	3162	2916	N/A	N/A	N/A	N/A
5/16 – 18	7/16	2-3/4	7634	7552	1/2	3	3/8	6570
3/8 – 16	1/2	3-1/4	10142	9379	1/2	3-1/2	3/8	9679
1/2 – 13	5/8	4-1/8	13387	16687	5/8	4-1/4	1/2	15105
5/8 – 11	7/8	6-1/4	26100	28404	7/8	6-1/4	7/8	25771
3/4 – 10	1	7-1/2	46000	32430	1	7	7/8	–
1 – 8	1-1/2	9-1/2	64000	–	1-1/2	9	1	–

NOTES:

- 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 epoxy products.
- Use cure times recommended by epoxy manufacturer before applying full load to anchor.