RED HEAD®
CONCRETE ANCHORING SPECIALISTS

Redi-Drive Anchors

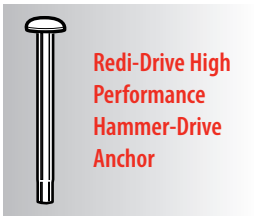
Redi-Drive Anchors—High Performance Without Torquing

DESCRIPTION/SUGGESTED SPECIFICATIONS

Light-Duty Hammer-Drive Masonry Anchors—

SPECIFIED FOR ANCHORAGE INTO CONCRETE, BLOCK AND BRICK

The Redi-Drive is a high performance small diameter one-piece hammer-drive anchor. The anchor holds based on a friction principle—the shank diameter is larger than the drill hole size. Anchors shall be installed with carbide-tipped hammer drill bits made in accordance to ANSI B212.15-1994.



Redi-Drive High Performance Hammer-Drive Anchor

The Redi-Drive is available in four types. . .mushroom head, pipe-hanging (1/4" & 3/8") FM approved (on 3/8"), Tie-Wire, and double-head forming versions. Anchor performance in solid concrete at one inch embedment shall exceed 400 lbs. allowable tension load and 750 lbs. allowable shear load.

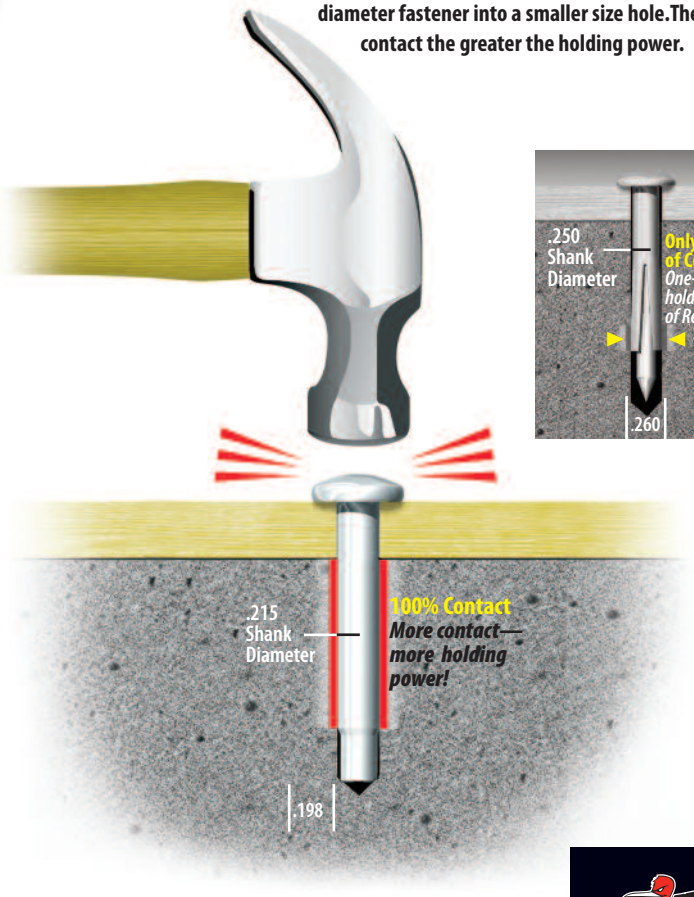
ADVANTAGES

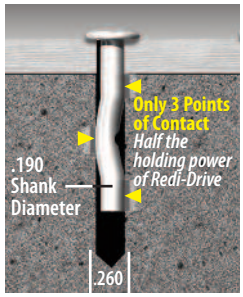
- High performance provides superior holding values in concrete and other masonry materials
- Fire resistant
- Tamper resistant
- Standard 3/16" drill hole size—cheaper bit and faster installation
- Available in 3/4", 1-1/8", 1-5/8", 2", 2-1/2", and 3" lengths
- Most economical steel anchor available
- Provides fast, high performance drive-type fastening without torquing or need for special setting equipment

As simple as using a nail—

drive into predrilled holes for tremendous holding strength in concrete.

Compressive strength is created by forcing a larger diameter fastener into a smaller size hole.The greater the degree of contact the greater the holding power.



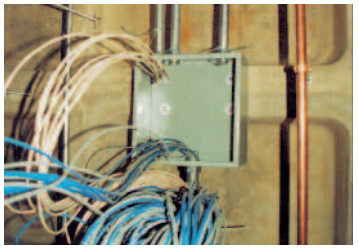


Redi-Drive Anchors

APPLICATIONS

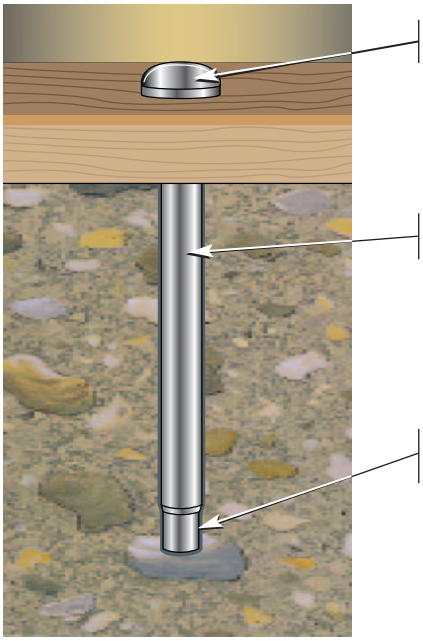
Signage and other light duty metal products are common applications for the Redi-Drive. It has superior performance in block, brick and solid concrete, and is tamper-proof.

Wood attachments to concrete are common Redi-Drive applications, whether permanent or temporary.



Electrical boxes and conduit clips that need permanent attachment are ideal applications for the Redi-Drive. It works well in all base materials and is fast and economical.

FEATURES



Tamper-Proof—mushroom head

100% Hole Contact—.215 shank in .198 hole

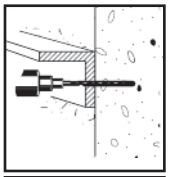
Dog-Point—for easy insertion and installation

APPROVALS/LISTINGS

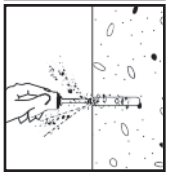
Meets or exceeds U.S. Government G.S.A. Specification FF-S-325 Group VI

Factory Mutual (3/8" pipe-drive)

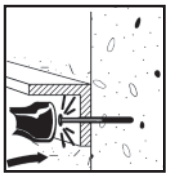
INSTALLATION STEPS FOR REDI-DRIVE & FORMING ANCHORS



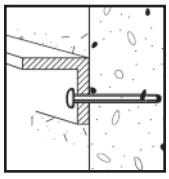
1. Drill a proper-sized diameter hole at a minimum depth (see chart on page 84, ANSI B212.15–1994).



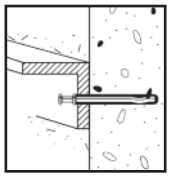
2. Clean hole.
Please note hole is 3/16" but diameter of Redi -Drive is 1/4" (except for PD8-134 and FD8-234)



3. Insert anchor through material to be fastened (insert tie-wire or pipe version Redi-Drive anchors into drilled holes) and drive anchor with a 3-lb. hammer until the head is flush with surface or desired embedment.



Anchor is now set for Redi-Drive Anchor.

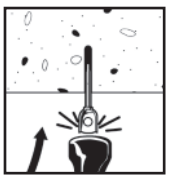


Anchor is now set for Forming Anchor.

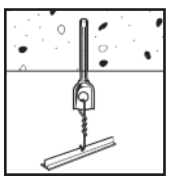
INSTALLATION STEPS FOR REDI-DRIVE TIE-WIRE ANCHORS

1. Drill a proper-sized diameter hole at a minimum depth (see chart on page 84, ANSI B212.15–1994).

2. Clean hole.
Please note hole is 3/16" but diameter of Redi -Drive is 1/4" (except for PD8-134 and FD8-234)



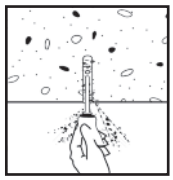
3. Insert anchor through material to be fastened (insert tie-wire or pipe version Redi-Drive anchors into drilled holes) and drive anchor with a 3-lb. hammer until the head is flush with surface or desired embedment.



Anchor is now set.

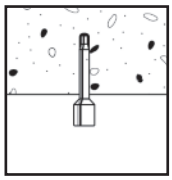
INSTALLATION STEPS FOR REDI-PIPE-DRIVE ANCHORS

1. Drill a proper-sized diameter hole at a minimum depth (see chart on page 84, ANSI B212.15–1994).



2. Clean hole.

3. Insert anchor through material to be fastened (insert tie-wire or pipe version Redi-Drive anchors into drilled holes) and drive anchor with a 3-lb. hammer until the head is flush with surface or desired embedment.



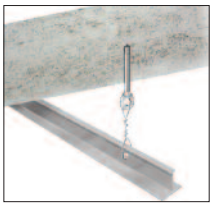
Anchor is now set.

SELECTION CHART

Redi-Drive Anchors

Typical Applications—Electrical boxes, conduit clips, and duct work

PART NUMBER	HEAD DIA. In. (mm)	DRILL BIT SIZE In. (mm)	TOTAL LENGTH In. (mm)	MIN. EMBEDMENT In. (mm)	MAX. FIXTURE THICKNESS In. (mm)	CLEARANCE HOLE SIZE In. (mm)	QTY/WT PER BX lbs.	QTY/WT PER MASTER CARTON lbs.
RD4-034	7/16 (11.1)	3/16 (4.8)	3/4 (19.1)	11/16 (17.5)	1/16 (1.6)	1/4 (6.4)	100/ 1.4	1000/15
RD4-118	7/16 (11.1)	3/16 (4.8)	1-1/8 (28.6)	3/4 (19.1)	3/8 (9.5)	1/4 (6.4)	100/ 1.6	1000/17
RD4-158	7/16 (11.1)	3/16 (4.8)	1-5/8 (41.3)	3/4 (19.1)	7/8 (22.2)	1/4 (6.4)	100/ 2.2	1000/23
RD4-200	7/16 (11.1)	3/16 (4.8)	2 (50.8)	3/4 (19.1)	1-1/4 (31.8)	1/4 (6.4)	100/ 2.6	1000/26
RD4-212	7/16 (11.1)	3/16 (4.8)	2-1/2 (63.5)	3/4 (19.1)	1-3/4 (44.5)	1/4 (6.4)	100/ 3.2	1000/33
RD4-300	7/16 (11.1)	3/16 (4.8)	3 (76.2)	3/4 (19.1)	2-1/4 (57.2)	1/4 (6.4)	100/ 3.7	1000/37



Tie Wire Typical Applications—Acoustical ceilings, suspended electrical fixture, pencil rod

PART NUMBER	HEAD SIZE O.D. In. (mm)	DRILL BIT SIZE In. (mm)	TOTAL LENGTH In. (mm)	MIN. EMBEDMENT In. (mm)	HEAD HEIGHT In. (mm)	HEAD SIZE I.D.	QTY/WT PER BX lbs.	QTY/WT PER MASTER CARTON lbs.
TD4-112	3/16 (4.8)	3/16 (4.8)	2-1/8 (54.0)	1-1/4 (31.8)	5/8 (15.9)	9/32" hole	100/ 3.5	1000/35

Pipe Hanging Typical Applications—Fire sprinkler, water lines, steam/gas, cable tray, electrical conduits

PART NUMBER	INTERNAL THREAD SIZE I.D.	DRILL BIT SIZE In. (mm)	TOTAL LENGTH In. (mm)	MIN. EMBEDMENT In. (mm)	HEAD HEIGHT In. (mm)	INTERNAL THREADED DIAMETER O.D. In. (mm)	QTY/WT PER BX lbs.	QTY/WT PER MASTER CARTON lbs.
PD4-112	1/4 - 20"	3/16 (4.8)	2-1/8 (54.0)	1-1/4 (31.8)	5/8 (15.9)	13/32 (10.3)	100/ 3.0	1000/30
PD8-134	3/8 - 16"	1/4 (6.4)	2-1/2 (63.5)	1-3/4 (44.5)	3/4 (19.1)	9/16 (14.3)	100/ 6.0	1000/61

Forming
Wood attachments to concrete are common Redi-Drive applications, whether permanent or temporary

PART NUMBER	HEAD SIZE O.D. In. (mm)	DRILL BIT SIZE In. (mm)	TOTAL LENGTH In. (mm)	MIN. EMBEDMENT In. (mm)	HEAD HEIGHT In. (mm)	HEAD SIZE I.D.	QTY/WT PER BX lbs.	QTY/WT PER MASTER CARTON lbs.
FD6-234	7/16 (11.1)	3/16 (4.8)	2-3/4 (69.9)	1-1/4 (31.8)	N/A	N/A	100/ 3.1	1000/31
FD8-234	7/16 (11.1)	1/4 (6.4)	2-3/4 (69.9)	1-1/4 (31.8)	N/A	N/A	100/ 5.6	1000/56

ACCESSORIES

Redi-Drive Setting Tool

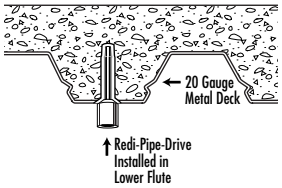
Installs Redi-Drive anchors in tight and hard to access areas—easily and quickly. Just place anchor in rubber "holding cap," place against work surface and hammer in anchors.

PART NUMBER	DESCRIPTION	QTY/WT PER BOX	QTY/WT PER MASTER CARTON
RDST	Redi-Drive Setting Tool	1/1	1/1

PERFORMANCE TABLE

Redi-Drive Anchors

Anchoring Overhead in 3000 PSI Lightweight Concrete On Metal Deck



ANCHOR	DRILL HOLE DIAMETER In. (mm)	EMBEDMENT In. (mm)	3000PSI (20.7 MPa) CONCRETE		
			ULTIMATE TENSION LOAD Lbs. (kN)		ALLOWABLE WORKING LOAD Lbs. (kN)
3/8" Pipe Drive	1/4 (6.4)	1-1/2 (38.1)	Upper Flute	1,099 (4.9)	275 (1.2)
			Lower Flute	994 (4.4)	249 (1.1)

Safe working loads for single installations under static loading conditions should not exceed 25% of the ultimate capacity.

PERFORMANCE TABLE

Redi-Drive Anchors

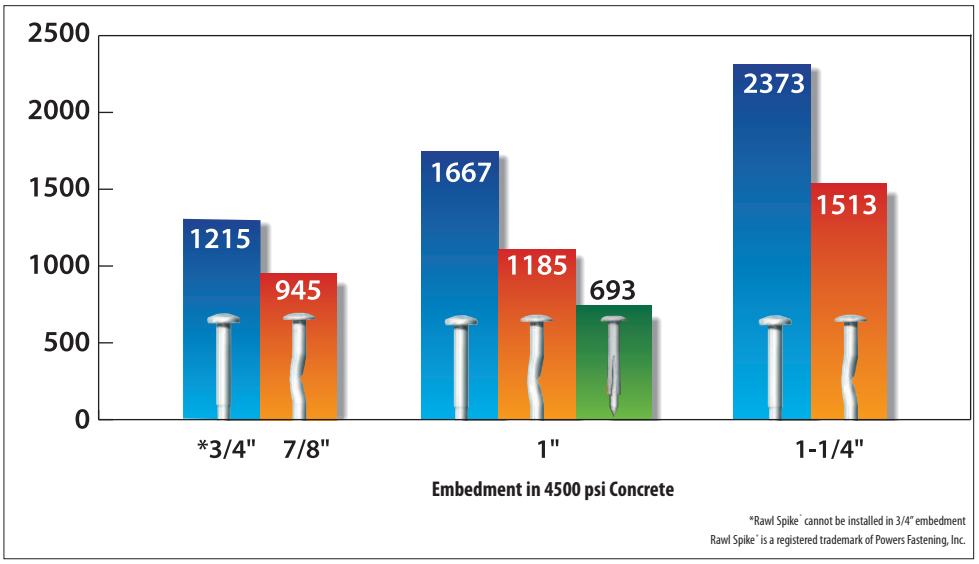
Ultimate Tension and Shear Values (Lbs/kN) in Concrete, Hollow Block and Grout Filled

SHANK DIA. ANCHOR	EMBEDMENT In. (mm)	4500 PSI (31.0 MPa)		CMU (HOLLOW BLOCK) PSI (MPa)		CMU (GROUT FILLED) PSI (MPa)	
		TENSION Lbs. (kN)	SHEAR Lbs. (kN)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)
Redi-Drive	3/4 (19.1)	1,215 (5.4)	1,857 (8.3)	382 (1.7)	683 (3.0)	731 (3.3)	1,614 (7.2)
	1 (25.4)	1,667 (7.4)	3,112 (13.8)	392 (1.7)	987 (4.4)	870 (3.9)	1,766 (7.9)
	1-1/4 (31.8)	2,373 (10.6)	3,355 (14.9)	398 (1.8)	1,381 (6.1)	1,543 (6.9)	2,778 (12.4)
Tie-Drive or 1/4" Pipe-Drive	1-1/4 (31.8)	2,372 (10.6)	-- --	-- --	-- --	-- --	-- --
3/8" Pipe-Drive	1-1/2 (38.1)	2,090 (9.3)	-- --	-- --	-- --	-- --	-- --

Safe working loads for single installations under static loading conditions should not exceed 25% of the ultimate capacity.

The tabulated values are for anchors installed in a minimum of 12 diameters on center and a minimum edge distance of 10 diameters for 100 percent anchor efficiency.
Space and edge distance may be reduced to six diameters spacing and five diameter edge distance provided values are reduced 50%. Linear interpolation may be used for intermediate spacing and edge margins.

The Redi-Drive is the most versatile of all of these products. It can be used at all these embedment depths and is superior in pull-out performance to these competitive anchors.



*Rawl Spike® cannot be installed in 3/4" embedment
Rawl Spike® is a registered trademark of Powers Fastening, Inc.