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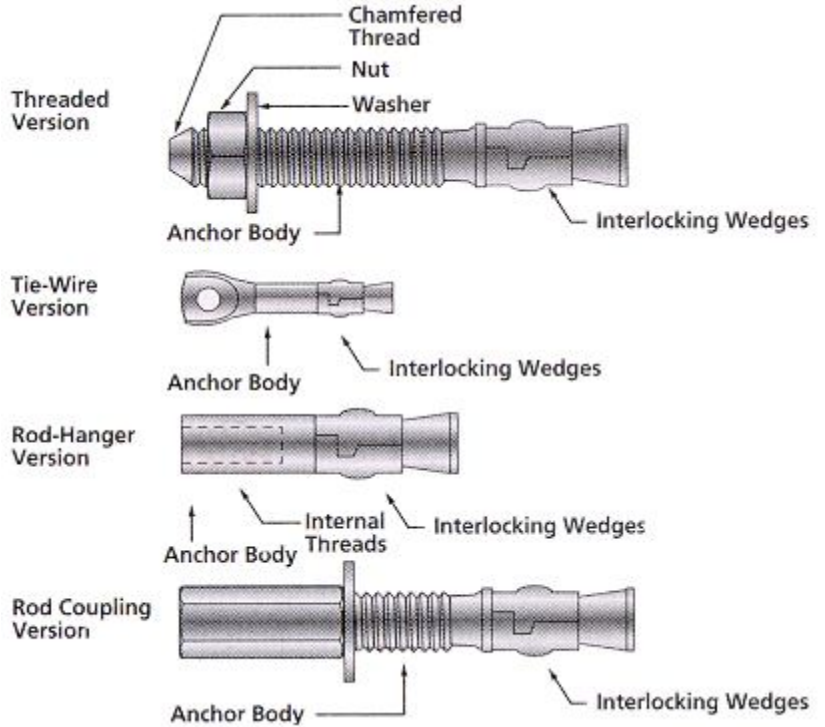
# WEDGE ANCHORS

## POWERS FASTENERS

### ULTIMATE SHEAR LOAD (LBS)

ANCHOR SIZE	EMBED. DEPTH	GUIDE TORQUE (FT.-LBS.)	2,000 PSI CONCRETE	4,000 PS CONCRETE	6,000 PSI CONCRETE
1/4"	1-1/8"	8	1,450	2,070	2,080
1/4"	1-1/2"	8	1,655	2,075	2,080
1/4"	2"	8	1,925	2,080	2,080
1/4"	2-3/4"	8	1,925	2,080	2,080
3/8"	1-5/8"	28	3,840	5,185	5,810
3/8"	2"	28	4,265	5,420	5,925
3/8"	3"	28	5,390	6,040	6,230
3/8"	4-1/4"	28	5,390	6,040	6,230
1/2"	2-1/4"	60	7,025	7,150	7,150
1/2"	3"	60	7,200	7,190	7,295
1/2"	4"	60	7,280	7,535	7,710
1/2"	6"	60	7,280	7,535	7,710
5/8"	2-3/4"	90	9,760	11,895	11,895
5/8"	4"	90	10,660	12,170	12,170
5/8"	5"	90	11,800	13,300	13,300
5/8"	7"	90	11,800	13,300	13,300
3/4"	3-3/8"	175	14,660	15,060	15,265
3/4"	5"	175	15,770	17,110	18,045
3/4"	6"	175	16,450	18,620	19,755
3/4"	8"	175	16,450	18,620	19,755
7/8"	3-7/8"	250	18,630	23,960	23,960
7/8"	4-1/2"	250	19,590	24,670	24,670
7/8"	5-3/4"	250	20,435	25,710	25,710
7/8"	8"	250	20,435	25,710	25,710
1"	4-1/2"	300	26,400	31,110	31,110
1"	5-1/2"	300	27,020	32,370	32,370
1"	6-1/2"	300	29,330	32,370	32,370
1"	9"	300	32,370	32,370	32,370
1-1/4"	5-5/8"	450	38,035	39,265	42,945
1-1/4"	7"	450	41,720	44,170	49,080
1-1/4"	10"	450	41,720	44,170	49,080

**NOTE:** THE VALUES LISTED ABOVE ARE ULTIMATE LOAD CAPACITIES IN POUNDS FOR THE CARBON STEEL AND STAINLESS STEEL POWER-STUD WHICH SHOULD BE REDUCED BY A MINIMUM SAFETY FACTOR OF FOUR TO DETERMINE THE ALLOWABLE WORKING LOAD. REFER TO THE SECTION ON ANCHOR SELECTION GUIDELINES FOR DETAILS.



- FINISH:**  ZINC  
 HOT DIPPED GALVANIZED

THE WEDGE ANCHOR IS A ONE PIECE, WEDGE STYLE ANCHOR AVAILABLE IN CARBON STEEL AND STAINLESS STEEL. THREADED, ROD HANGER, ROD COUPLING AND TIE-WIRE VERSIONS ARE DESIGNED FOR USE IN CONCRETE.

THE WEDGE ANCHOR DIAMETER IS THE SAME AS THAT FOR THE HOLE SIZE WHICH ELIMINATES THE NEED FOR HOLE SPOTTING OR LAYOUT. ON THE STANDARD VERSION, IT IS DESIGNED WITH A CHAMFER ON THE THREADED END AND A TAPERED EXPANSION SECTION ON THE WORKING END OF THE ANCHOR ON WHICH A SET OF INTERLOCKING WEDGES ARE MOUNTED. DURING INSTALLATION, THE CHAMFER PREVENTS DAMAGE TO THE THREADS OF THE ANCHOR. THE WEDGES ARE HELD ON TO THE TAPERED EXPANSION SECTION OF THE ANCHOR BY INTERLOCKING TABS, WHICH GRIP THE ANCHOR BODY FIRMLY TO PREVENT SPINNING OF THE ANCHOR DURING TIGHTENING. AS THE ANCHOR IS TIGHTENED, THE BODY IS PULLED UPWARDS CAUSING THE TAPERED EXPANSION SECTION TO COMPRESS THE WEDGES CIRCUMFERENTIALLY AGAINST THE WALL OF THE ANCHOR HOLE.

### SUBMITTAL INFORMATION

CUSTOMER:		APPROVAL STAMP
PROJECT NAME:		
PROJECT NUMBER:	SECTION:	
PARAGRAPH:	OTHER:	

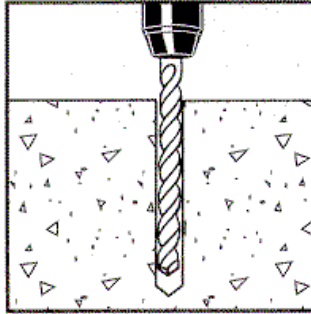


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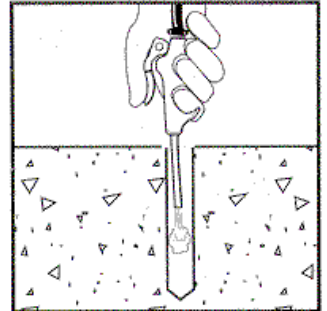
POWERS FASTENERS

## Installation Procedures

Using the proper diameter bit, drill a hole into the base material to a depth of at least 1/2" or one anchor diameter deeper than the embedment required. The tolerances of the drill bit used should meet the requirements of ANSI Standard B212.15.



Blow the hole clean of dust and other material. Position the washer on the anchor and thread on the nut.



## ULTIMATE TENSION LOAD (LBS)

### PERFORMANCE DATA

THE FOLLOWING LOAD CAPACITIES ARE BASES ON TESTING CONDUCTED ACCORDING TO ASTM STANDARD E 488.

ANCHOR SIZE	EMBED. DEPTH	GUIDE TORQUE (FT.-LBS.)	2,000 PSI CONCRETE	4,000 PS CONCRETE	6,000 PSI CONCRETE
1/4"	1-1/8"	8	1,670	2,380	2,380
1/4"	1-1/2"	8	2,120	2,560	2,585
1/4"	2"	8	2,725	2,925	3,050
1/4"	2-3/4"	8	3,050	3,050	3,050
3/8"	1-5/8"	28	3,565	4,125	4,150
3/8"	2"	28	3,900	4,310	4,400
3/8"	3"	28	4,800	5,940	6,020
3/8"	4-1/4"	28	4,800	6,020	6,020
1/2"	2-1/4"	60	6,525	6,625	6,625
1/2"	3"	60	7,135	8,050	8,750
1/2"	4"	60	7,945	9,945	10,290
1/2"	6"	60	7,945	10,290	10,290
5/8"	2-3/4"	90	7,330	8,365	9,860
5/8"	4"	90	9,375	12,300	14,535
5/8"	5"	90	11,010	12,710	16,410
5/8"	7"	90	11,800	14,000	16,410
3/4"	3-3/8"	175	10,745	10,745	15,525
3/4"	5"	175	14,855	17,620	19,380
3/4"	6"	175	17,385	18,745	21,755
3/4"	8"	175	17,385	21,755	21,755
7/8"	3-7/8"	250	12,330	15,820	19,275
7/8"	4-1/2"	250	14,300	17,620	20,995
7/8"	5-3/4"	250	18,245	21,225	24,440
7/8"	8"	250	18,245	24,500	31,180
1"	4-1/2"	300	13,880	19,990	27,370
1"	5-1/2"	300	18,625	23,530	29,980
1"	6-1/2"	300	23,370	27,330	32,415
1"	9"	300	24,440	33,400	44,215
1-1/4"	5-5/8"	450	21,460	27,320	36,200
1-1/4"	7"	450	24,385	33,620	42,300
1-1/4"	10"	450	33,160	52,275	63,200

### SUBMITTAL INFORMATION

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