



## Single™

### SINGLE EXPANSION ANCHOR

#### BASE MATERIAL

Concrete, Block, Brick and Stone

#### SIZE RANGE

1/4" to 3/4"

#### ANCHOR MATERIAL

Zamac Alloy

#### PRODUCT DESCRIPTION

The Single™ is a machine bolt anchor designed for use in concrete, and some block, brick and stone base materials. The anchor consists of a pre-assembled set of expansion shields and an expander cone formed from Zamac alloy.

### ANCHOR SIZES

CAT. NO.	SIZE	ANCHOR LENGTH	DRILL DIA.	MIN. HOLE DEPTH	STD. BOX	STD. CTN.	WT./100
9650	1/4"	1-5/16"	1/2"	1-3/8"	50	250	3-3/4
9655	5/16"	1-1/2"	5/8"	1-5/8"	50	250	5-1/2
9665	3/8"	1-1/2"	5/8"	1-5/8"	50	250	5-1/4
9675	1/2"	2-1/16"	7/8"	2-1/2"	25	125	15-1/4
9685	5/8"	2-5/8"	1"	2-3/4"	25	125	24
9695	3/4"	2-3/4"	1-1/4"	2-7/8"	10	100	43

### INSTALLATION SPECIFICATIONS

ANCHOR SIZE	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
ANSI Drill Bit Size	1/2"	5/8"	5/8"	7/8"	1"	1-1/4"
Max Torque (ft.-lbs.)	5	7	10	20	30	40
Thread Size	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10
Thread Length in Cone	5/16"	5/16"	5/16"	7/16"	5/8"	11/16"

### PERFORMANCE DATA

#### ULTIMATE LOAD CAPACITIES - CONCRETE

ANCHOR SIZE (IN)	DRILL BIT (IN)	EMBED. DEPTH (IN)	2,000 PSI CONCRETE TENSION (LBS)	CONCRETE SHEAR (LBS)	4,000 PSI CONCRETE TENSION (LBS)	CONCRETE SHEAR (LBS)	6,000 PSI CONCRETE TENSION (LBS)	CONCRETE SHEAR (LBS)
1/4	1/2	1-3/8	885	1,585	2,000	1,620	2,310	1,910
5/16	5/8	1-5/8	1,380	2,045	2,100	2,375	2,460	2,535
3/8	5/8	1-5/8	1,660	3,590	2,900	3,795	3,370	5,375
1/2	7/8	2-1/2	2,990	5,345	4,900	6,155	5,100	9,900
5/8	1	2-3/4	4,950	10,710	8,200	11,410	8,830	12,870
3/4	1-1/4	2-7/8	6,415	14,560	10,600	17,775	11,040	19,310

### APPROVALS AND LISTINGS

Federal Specification

Meets the descriptive requirements of FF-S-325C, Group II, Type 2, Class 2, Style 1 (superseded) and CID A-A-1923A, Type 2.