

# Strong-Bolt® 2 Wedge Anchor — Zinc-Plated Carbon Steel

Code listed for cracked and uncracked concrete, and masonry applications, the Strong-Bolt 2 wedge-type expansion anchor is an optimal choice for high-performance even in seismic and high-wind conditions. Dual undercutting embossments on each clip segment enable secondary expansion should a crack form and intersect the anchor location; this feature significantly increases the ability of Strong-Bolt 2 to carry load if the hole expands.

## Features


- Chamfered top designed to prevent mushrooming during installation
- Qualified for static and seismic loading conditions (seismic design categories A through F)
- Suitable for horizontal, vertical and overhead applications
- Qualified for minimum concrete thickness of 3¼", and lightweight concrete-over-steel deck
- Standard (ANSI) fractional sizes: fits standard fixtures and installs with common drill bit and tool sizes
- Tested per ACI355.2 and AC193

**Material:** Carbon steel

**Coating:** Zinc plated

**Codes:** ICC-ES ESR-3037 (concrete);  
 IAPMO UES ER-240 (carbon steel in CMU);  
 City of LA Supplement within ESR-3037 (concrete);  
 City of LA Supplement within ER-240 (carbon steel in CMU);  
 Florida FL15730 (concrete); FL16230 (masonry);  
 UL File Ex3605;  
 FM 3043342 and 3047639;  
 Multiple DOT listings; meets the requirements of  
 Federal Specifications A-A-1923A, Type 4

## Installation

 Do not use an impact wrench to set or tighten the Strong-Bolt 2 anchor.

 **Caution:** Oversized holes in the base material will make it difficult to set the anchor and will reduce the anchor's load capacity.

1. Drill a hole in the base material using a carbide drill bit the same diameter as the nominal diameter of the anchor to be installed. Drill the hole to the specified minimum hole depth, and blow it clean using compressed air. (Overhead installations need not be blown clean.) Alternatively, drill the hole deep enough to accommodate embedment depth and dust from drilling.
2. Assemble the anchor with nut and washer so the top of the nut is flush with the top of the anchor. Place the anchor in the fixture, and drive it into the hole until the washer and nut are tight against the fixture.
3. Tighten to the required installation torque.



**Strong-Bolt 2  
Wedge Anchor**

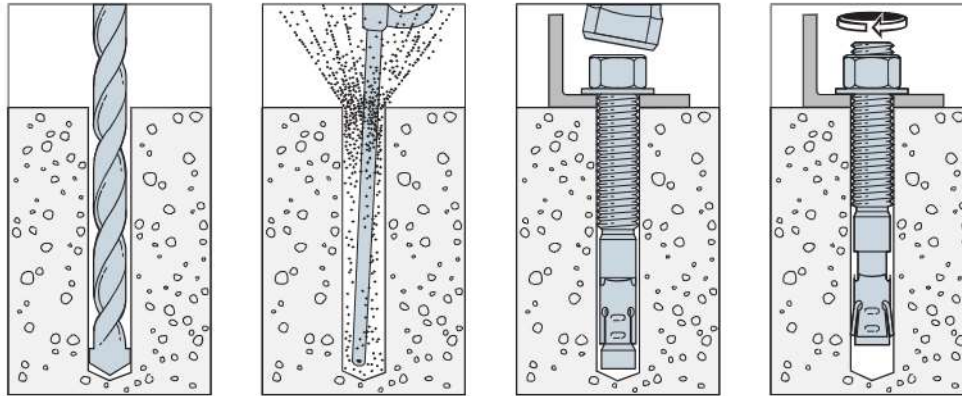


## Head Stamp

The head is stamped with the length identification letter, bracketed top and bottom by horizontal lines.

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## Installation Sequence



## Material Specifications

Anchor Body	Nut	Washer	Clip
Carbon Steel	Carbon Steel, ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel, ASTM A 568

## Strong-Bolt 2 Anchor Installation Data

Strong-Bolt 2 Diameter (in.)	1/4	3/8	1/2	5/8	3/4	1
Drill Bit Size (in.)	1/4	3/8	1/2	5/8	3/4	1
Min. Fixture Hole (in.)	5/16	7/16	9/16	11/16	7/8	1 1/8
Wrench Size (in.)	7/16	9/16	3/4	15/16	1 1/8	1 1/2
Concrete Installation Torque (ft.-lbf) Carbon Steel	4	30	60	90	150	230

## Length Identification Head Marks on Strong-Bolt 2 Wedge Anchors (corresponds to length of anchor — inches)

Mark	Units	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
From	in.	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8	8 1/2	9	9 1/2	10	11	12	13	14	15	16	17	18
Up To But Not Including	in.	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8	8 1/2	9	9 1/2	10	11	12	13	14	15	16	17	18	19