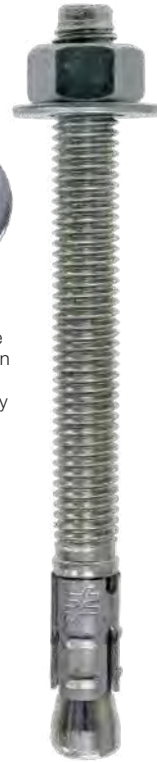


Strong-Bolt® 2 Wedge Anchor

Code listed for cracked and uncracked concrete, and masonry applications, the STB2 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 the STB2 to carry load if the hole expands. The STB2 has a chamfered top designed to prevent mushrooming during installation, and to ensure the nut can be easily installed/removed.

**Head Stamp**

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

Features

- Suitable for horizontal, vertical and overhead applications
- Qualified for minimum concrete thickness of 3¼", and lightweight concrete-over-metal deck thickness of 2½" and 3¼"
- Fits standard (ANSI) fixtures and installs with common drill bit and tool sizes

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.


Material: Zinc-plated carbon steel or stainless steel (Type 304; Type 316)


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
Type 304 stainless steel	Type 304 stainless steel	Type 304 stainless steel	Type 304 or 316 stainless steel
Type 316 stainless steel	Type 316 stainless steel	Type 316 stainless steel	Type 316 stainless steel

Strong-Bolt® 2 Wedge Anchor

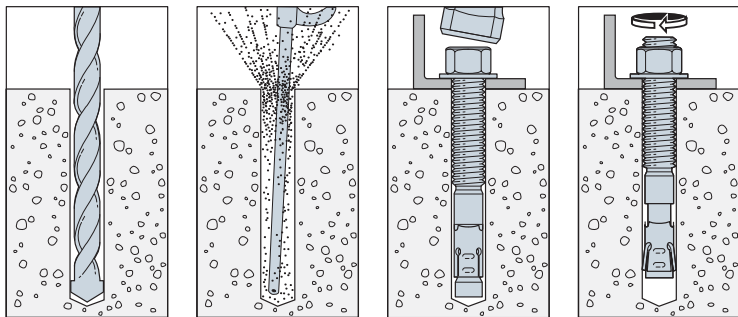
Installation

 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.

Installation Sequence



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
Concrete installation torque (ft.-lbf.) Stainless steel	4	30	65	80	150	—

For length identification head marks on Strong-Bolt 2 wedge anchor, see p. 210.

Strong-Bolt® 2 Wedge Anchor

Strong-Bolt 2 Anchor Product Data —
Carbon Steel and Mechanically Galvanized

Size (in.)	Carbon Steel Model No.	Mechanically Galvanized Model No.	Drill Bit Diameter (in.)	Thread Length (in.)	Quantity	
					Box	Carton
¼ x 1¾	STB2-25134	—	¼	1 5/16	100	500
¼ x 2¼	STB2-25214	—	¼	1 7/16	100	500
¼ x 3¼	STB2-25314	STB2-25314MG	¼	2 7/16	100	500
¾ x 2¼	STB2-37214R50	—	¾	1	50	250
¾ x 2¾	STB2-37234	—	¾	1 5/16	50	250
¾ x 3	STB2-37300	STB2-37300MG	¾	1 9/16	50	250
¾ x 3½	STB2-37312	—	¾	2 1/16	50	250
¾ x 3¾	STB2-37334	STB2-37334MG	¾	2 9/16	50	250
¾ x 5	STB2-37500	STB2-37500MG	¾	3 9/16	50	200
¾ x 7	STB2-37700	STB2-37700MG	¾	5 9/16	50	200
½ x 2¾	STB2-50234R25	STB2-50234MG	½	1 ¼	25	125
½ x 3¾	STB2-50334	STB2-50334MG	½	2 1/16	25	100
½ x 4¼	STB2-50414	STB2-50414MG	½	2 9/16	25	100
½ x 4¾	STB2-50434	—	½	3 1/16	25	100
½ x 5½	STB2-50512	STB2-50512MG	½	3 13/16	25	100
½ x 7	STB2-50700	STB2-50700MG	½	5 9/16	25	100
½ x 8½	STB2-50812	—	½	6	25	100
½ x 10	STB2-50100	STB2-50100MG	½	6	25	100
½ x 12	STB2-501200R10	—	½	6	10	20
⅝ x 3½	STB2-62312R20	STB2-62312MG	⅝	1 5/8	20	80
⅝ x 4½	STB2-62412	STB2-62412MG	⅝	2 7/16	20	80
⅝ x 5	STB2-62500	STB2-62500MG	⅝	2 15/16	20	80
⅝ x 6	STB2-62600	STB2-62600MG	⅝	3 15/16	20	80
⅝ x 7	STB2-62700	—	⅝	4 15/16	20	80
⅝ x 8½	STB2-62812	STB2-62812MG	⅝	4 15/16	20	80
⅝ x 10	STB2-62100	STB2-62100MG	⅝	6	20	40
⅝ x 12	STB2-621200R10	—	⅝	6	10	20
¾ x 4¾	STB2-75434R10	STB2-75434MG	¾	2 5/8	10	40
¾ x 5½	STB2-75512	STB2-75512MG	¾	3 3/16	10	40
¾ x 6¼	STB2-75614	—	¾	3 15/16	10	40
¾ x 7	STB2-75700	STB2-75700MG	¾	4 11/16	10	40
¾ x 8½	STB2-75812	—	¾	6	10	20
¾ x 10	STB2-75100	—	¾	6	10	20
¾ x 12	STB2-751200R5	STB2-751200MG	¾	6	10	20
1 x 7	STB2-100700	—	1	3 ½	5	20
1 x 10	STB2-1001000	—	1	3 ½	5	10
1 x 13	STB2-1001300	—	1	3 ½	5	10
1 x 15	STB2-1001500	—	1	3 ½	5	10

Strong-Bolt® 2 Wedge Anchor

Strong-Bolt 2 Anchor Product Data — Stainless Steel

Size (in.)	Type 304 Stainless Steel Model No.	Type 316 Stainless Steel Model No.	Drill Bit Diameter (in.)	Thread Length (in.)	Quantity	
					Box	Carton
¼ x 1¾	STB2-251344SS	STB2-251346SS	¼	1½	100	500
¼ x 2¼	STB2-252144SS	STB2-252146SS	¼	1⅞	100	500
¼ x 3¼	STB2-253144SS	STB2-253146SS	¼	2⅞	100	500
⅜ x 2¼	STB2-372144SSR50	STB2-372146SSR50	⅜	1	50	250
⅜ x 2¾	STB2-372344SS	STB2-372346SS	⅜	1½	50	250
⅜ x 3	STB2-373004SS	STB2-373006SS	⅜	1⅞	50	250
⅜ x 3½	STB2-373124SS	STB2-373126SS	⅜	2⅞	50	250
⅜ x 3¾	STB2-373344SS	STB2-373346SS	⅜	2⅞	50	250
⅜ x 5	STB2-375004SS	STB2-375006SS	⅜	3⅞	50	200
⅜ x 7	STB2-377004SS	STB2-377006SS	⅜	5⅞	50	200
½ x 2¾	STB2-502344SSR25	STB2-502346SSR25	½	1¼	25	125
½ x 3¾	STB2-503344SS	STB2-503346SS	½	2⅞	25	125
½ x 4¼	STB2-504144SS	STB2-504146SS	½	2⅞	25	100
½ x 4¾	STB2-504344SS	STB2-504346SS	½	3⅞	25	100
½ x 5½	STB2-505124SS	STB2-505126SS	½	3⅞	25	100
½ x 7	STB2-507004SS	STB2-507006SS	½	5⅞	25	100
½ x 8½	STB2-508124SS	STB2-508126SS	½	6	25	50
½ x 10	STB2-501004SS	STB2-501006SS	½	6	25	50
⅝ x 3½	STB2-623124SSR20	STB2-623126SSR20	⅝	1½	20	80
⅝ x 4½	STB2-624124SS	STB2-624126SS	⅝	2⅞	20	80
⅝ x 5	STB2-625004SS	STB2-625006SS	⅝	2⅞	20	80
⅝ x 6	STB2-626004SS	STB2-626006SS	⅝	3⅞	20	80
⅝ x 7	STB2-627004SS	STB2-627006SS	⅝	4⅞	20	80
⅝ x 8½	STB2-628124SS	STB2-628126SS	⅝	6	20	40
⅝ x 10	STB2-621004SS	STB2-621006SS	⅝	6	10	20
¾ x 4¾	STB2-754344SSR10	STB2-754346SSR10	¾	2½	10	40
¾ x 5½	STB2-755124SS	STB2-755126SS	¾	3⅞	10	40
¾ x 6¼	STB2-756144SS	STB2-756146SS	¾	3⅞	10	40
¾ x 7	STB2-757004SS	STB2-757006SS	¾	4⅞	10	40
¾ x 8½	STB2-758124SS	STB2-758126SS	¾	6	10	20