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Products

Anchoring Systems

Strong-Bolt® 2 Wedge Anchor — Stainless Steel

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Anchoring Systems

Strong-Bolt® 2 Wedge Anchor — Stainless Steel3

Product Overview3

Strong-Bolt® 2 Wedge Anchor — Stainless 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. The Strong-Bolt 2 stainless-steel wedge-anchor offers long-lasting corrosion resistance for a wide variety of service environments.

Key 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 3 1/4", 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

- Stainless steel (Type 304; Type 316)

Installation

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 Diameter (in.)	Drill Bit Size (in.)	Min. Fixture Hole (in.)	Wrench Size (in.)	Concrete Installation Torque (ft.-lbf.) Stainless Steel
1/4	1/4	5/16	7/16	4
3/8	3/8	7/16	9/16	30
1/2	1/2	9/16	3/4	65
5/8	5/8	11/16	90	80
3/4	3/4	7/8	1 1/8	150

Disclaimer

Some specific models of this product might not be covered in the associated code reports. Please verify coverage for the models you wish to

Product Submittal

Strong-Bolt® 2 Wedge Anchor — Stainless Steel (Continued)



use

Product Submittal

Strong-Bolt® 2 Wedge Anchor — Stainless Steel (Continued)

SIMPSON

Strong-Tie

Product Information Table

Model No.	Coating/Material	Size (in.)	Drill Bit Dia. (in.)	Thread Length (in.)	Component Material, Anchor Body	Component Material, Nut	Component Material, Washer	Component Material, Clip	Packaging Qty.
STB2-251344SS	Type 304 Stainless Steel	1/4 x 1 3/4	1/4	1 5/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	100
STB2-251346SS	Type 316 Stainless Steel	1/4 x 1 3/4	1/4	1 5/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	100
STB2-252144SS	Type 304 Stainless Steel	1/4 x 2 1/4	1/4	1 7/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	100
STB2-252146SS	Type 316 Stainless Steel	1/4 x 2 1/4	1/4	1 7/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	100
STB2-253144SS	Type 304 Stainless Steel	1/4 x 3 1/4	1/4	2 7/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	100
STB2-253146SS	Type 316 Stainless Steel	1/4 x 3 1/4	1/4	2 7/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	100
STB2-372144SSR50	Type 304 Stainless Steel	3/8 x 2 1/4	3/8	1	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	50
STB2-372146SSR50	Type 316 Stainless Steel	3/8 x 2 1/4	3/8	1	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	50
STB2-372344SS	Type 304 Stainless Steel	3/8 x 2 3/4	3/8	1 5/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	50
STB2-372346SS	Type 316 Stainless Steel	3/8 x 2 3/4	3/8	1 5/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	50
STB2-373004SS	Type 304 Stainless Steel	3/8 x 3	3/8	1 9/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	50
STB2-373006SS	Type 316 Stainless Steel	3/8 x 3	3/8	1 9/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	50
STB2-373124SS	Type 304 Stainless Steel	3/8 x 3 1/2	3/8	2 1/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	50
STB2-373126SS	Type 316 Stainless Steel	3/8 x 3 1/2	3/8	2 1/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	50
STB2-373344SS	Type 304 Stainless Steel	3/8 x 3 3/4	3/8	2 5/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	50
STB2-373346SS	Type 316 Stainless Steel	3/8 x 3 3/4	3/8	2 5/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	50
STB2-375004SS	Type 304 Stainless Steel	3/8 x 5	3/8	3 9/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	50

Product Submittal

Strong-Bolt® 2 Wedge Anchor — Stainless Steel (Continued)

SIMPSON

Strong-Tie

Model No.	Coating/Material	Size (in.)	Drill Bit Dia. (in.)	Thread Length (in.)	Component Material, Anchor Body	Component Material, Nut	Component Material, Washer	Component Material, Clip	Packaging Qty.
STB2-375006SS	Type 316 Stainless Steel	3/8 x 5	3/8	3 9/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	50
STB2-377004SS	Type 304 Stainless Steel	3/8 x 7	3/8	5 9/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	50
STB2-377006SS	Type 316 Stainless Steel	3/8 x 7	3/8	5 9/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	50
STB2-501004SS	Type 304 Stainless Steel	1/2 x 10	1/2	6	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	25
STB2-501006SS	Type 316 Stainless Steel	1/2 x 10	1/2	6	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	25
STB2-502344SSR25	Type 304 Stainless Steel	1/2 x 2 3/4	1/2	1 1/4	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	25
STB2-502346SSR25	Type 316 Stainless Steel	1/2 x 2 3/4	1/2	1 1/4	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	25
STB2-503344SS	Type 304 Stainless Steel	1/2 x 3 3/4	1/2	2 1/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	25
STB2-503346SS	Type 316 Stainless Steel	1/2 x 3 3/4	1/2	2 1/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	25
STB2-504144SS	Type 304 Stainless Steel	1/2 x 4 1/4	1/2	2 9/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	25
STB2-504146SS	Type 316 Stainless Steel	1/2 x 4 1/4	1/2	2 9/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	25
STB2-504344SS	Type 304 Stainless Steel	1/2 x 4 3/4	1/2	3 1/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	25
STB2-504346SS	Type 316 Stainless Steel	1/2 x 4 3/4	1/2	3 1/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	25
STB2-505124SS	Type 304 Stainless Steel	1/2 x 5 1/2	1/2	3 13/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	25
STB2-505126SS	Type 316 Stainless Steel	1/2 x 5 1/2	1/2	3 13/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	25
STB2-507004SS	Type 304 Stainless Steel	1/2 x 7	1/2	5 5/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	25
STB2-507006SS	Type 316 Stainless Steel	1/2 x 7	1/2	5 5/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	25
STB2-508124SS	Type 304 Stainless	1/2 x	1/2	6	Type 304 Stainless	Type 304	Type 304 Stainless	Type 304 or Type	25

Product Submittal

Strong-Bolt® 2 Wedge Anchor — Stainless Steel (Continued)

SIMPSON

Strong-Tie

Model No.	Coating/Material	Size (in.)	Drill Bit Dia. (in.)	Thread Length (in.)	Component Material, Anchor Body	Component Material, Nut	Component Material, Washer	Component Material, Clip	Packaging Qty.
	Steel	8 1/2			Steel	Stainless Steel	Steel	316 Stainless Steel	
STB2-508126SS	Type 316 Stainless Steel	1/2 x 8 1/2	1/2	6	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	25
STB2-621004SS	Type 304 Stainless Steel	5/8 x 10	5/8	6	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	10
STB2-621006SS	Type 316 Stainless Steel	5/8 x 10	5/8	6	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	10
STB2-623124SSR20	Type 304 Stainless Steel	5/8 x 3 1/2	5/8	1 5/8	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	20
STB2-623126SSR20	Type 316 Stainless Steel	5/8 x 3 1/2	5/8	1 5/8	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	20
STB2-624124SS	Type 304 Stainless Steel	5/8 x 4 1/2	5/8	2 7/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	20
STB2-624126SS	Type 316 Stainless Steel	5/8 x 4 1/2	5/8	2 7/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	20
STB2-625004SS	Type 304 Stainless Steel	5/8 x 5	5/8	2 15/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	20
STB2-625006SS	Type 316 Stainless Steel	5/8 x 5	5/8	2 15/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	20
STB2-626004SS	Type 304 Stainless Steel	5/8 x 6	5/8	3 15/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	20
STB2-626006SS	Type 316 Stainless Steel	5/8 x 6	5/8	3 15/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	20
STB2-627004SS	Type 304 Stainless Steel	5/8 x 7	5/8	4 15/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	20
STB2-627006SS	Type 316 Stainless Steel	5/8 x 7	5/8	4 15/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	20
STB2-628124SS	Type 304 Stainless Steel	5/8 x 8 1/2	5/8	6	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	20
STB2-628126SS	Type 316 Stainless Steel	5/8 x 8 1/2	5/8	6	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	20
STB2-754344SSR10	Type 304 Stainless Steel	3/4 x 4 3/4	3/4	2 1/2	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	10
STB2-754346SSR10	Type 316 Stainless Steel	3/4 x 4 3/4	3/4	2 1/2	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	10

Product Submittal

Strong-Bolt® 2 Wedge Anchor — Stainless Steel (Continued)

SIMPSON

Strong-Tie

Model No.	Coating/Material	Size (in.)	Drill Bit Dia. (in.)	Thread Length (in.)	Component Material, Anchor Body	Component Material, Nut	Component Material, Washer	Component Material, Clip	Packaging Qty.
STB2-755124SS	Type 304 Stainless Steel	3/4 x 5 1/2	3/4	3 3/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	10
STB2-755126SS	Type 316 Stainless Steel	3/4 x 5 1/2	3/4	3 3/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	10
STB2-756144SS	Type 304 Stainless Steel	3/4 x 6 1/4	3/4	3 15/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	10
STB2-756146SS	Type 316 Stainless Steel	3/4 x 6 1/4	3/4	3 15/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	10
STB2-757004SS	Type 304 Stainless Steel	3/4 x 7	3/4	4 11/16	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	10
STB2-757006SS	Type 316 Stainless Steel	3/4 x 7	3/4	4 11/16	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	10
STB2-758124SS	Type 304 Stainless Steel	3/4 x 8 1/2	3/4	6	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 Stainless Steel	Type 304 or Type 316 Stainless Steel	10
STB2-758126SS	Type 316 Stainless Steel	3/4 x 8 1/2	3/4	6	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	Type 316 Stainless Steel	10
1. Models STB2-25134xSS, STB2-37214xSSR50, STB2-50234xSSR25, STB2-62312xSSR20, and STB2-75434xSSR10 do not meet minimum embedment in code report.									

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