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Submitted By:

Submitted To:

Products

Anchoring Systems  
Strong-Bolt® 2 Wedge Anchor

Approved with Notes

Approved

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Notes



Anchoring Systems

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## Strong-Bolt® 2 Wedge Anchor



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.

### 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 thickness of 2 1/2" and 3 1/4"
- Standard (ANSI) fractional sizes: fits standard fixtures and installs with common drill bit and tool sizes
- Tested per ACI355.2 and AC193

### Material

- Zinc-plated carbon steel

### 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.) Carbon Steel	Concrete Installation Torque (ft.-lbf.) Stainless Steel
1/4	1/4	5/16	7/16	4	4
3/8	3/8	7/16	9/16	30	30
1/2	1/2	9/16	3/4	60	65
5/8	5/8	11/16	15/16	90	80
3/4	3/4	7/8	1 1/8	150	150
1	1	1 1/8	1 1/2	230	-

# Product Submittal

Strong-Bolt® 2 Wedge Anchor (Continued)



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## *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 use

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# Product Submittal

Strong-Bolt® 2 Wedge Anchor (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.
STB2-1001000	Zinc Plated / Carbon Steel	1 x 10	1	3 1/2	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	5
STB2-1001300	Zinc Plated / Carbon Steel	1 x 13	1	3 1/2	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	5
STB2-100700	Zinc Plated / Carbon Steel	1 x 7	1	3 1/2	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	5
STB2-25134	Zinc Plated / Carbon Steel	1/4 x 1 3/4	1/4	15/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	100
STB2-25214	Zinc Plated / Carbon Steel	1/4 x 2 1/4	1/4	1 7/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	100
STB2-25314	Zinc Plated / Carbon Steel	1/4 x 3 1/4	1/4	2 7/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	100
STB2-37214R50	Zinc Plated / Carbon Steel	3/8 x 2 1/4	3/8	1	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	50
STB2-37234	Zinc Plated / Carbon Steel	3/8 x 2 3/4	3/8	1 5/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	50
STB2-37300	Zinc Plated / Carbon Steel	3/8 x 3	3/8	1 9/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	50
STB2-37312	Zinc Plated / Carbon Steel	3/8 x 3 1/2	3/8	2 1/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	50
STB2-37334	Zinc Plated / Carbon Steel	3/8 x 3 3/4	3/8	2 5/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	50
STB2-37500	Zinc Plated / Carbon Steel	3/8 x 5	3/8	3 9/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	50
STB2-37700	Zinc Plated / Carbon Steel	3/8 x 7	3/8	5 9/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	50
STB2-50100	Zinc Plated / Carbon Steel	1/2 x 10	1/2	6	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	25
STB2-50234R25	Zinc Plated / Carbon Steel	1/2 x 2 3/4	1/2	1 1/4	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	25
STB2-50334	Zinc Plated / Carbon Steel	1/2 x 3 3/4	1/2	2 1/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	25
STB2-50414	Zinc Plated / Carbon Steel	1/2 x 4 1/4	1/2	2 9/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	25

# Product Submittal

Strong-Bolt® 2 Wedge Anchor (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.
STB2-50434	Zinc Plated / Carbon Steel	1/2 x 4 3/4	1/2	3 1/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	25
STB2-50512	Zinc Plated / Carbon Steel	1/2 x 5 1/2	1/2	3 13/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	25
STB2-50700	Zinc Plated / Carbon Steel	1/2 x 7	1/2	5 5/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	25
STB2-50812	Zinc Plated / Carbon Steel	1/2 x 8 1/2	1/2	6	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	25
STB2-62100	Zinc Plated / Carbon Steel	5/8 x 10	5/8	6	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	10
STB2-62312R20	Zinc Plated / Carbon Steel	5/8 x 3 1/2	5/8	1 5/8	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	20
STB2-62412	Zinc Plated / Carbon Steel	5/8 x 4 1/2	5/8	2 7/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	20
STB2-62500	Zinc Plated / Carbon Steel	5/8 x 5	5/8	2 15/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	20
STB2-62600	Zinc Plated / Carbon Steel	5/8 x 6	5/8	3 15/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	20
STB2-62700	Zinc Plated / Carbon Steel	5/8 x 7	5/8	4 15/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	20
STB2-62812	Zinc Plated / Carbon Steel	5/8 x 8 1/2	5/8	6	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	20
STB2-75100	Zinc Plated / Carbon Steel	3/4 x 10	3/4	6	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	10
STB2-75100P1	Zinc Plated / Carbon Steel	3/4 x 10	3/4	6	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	1
STB2-751200R5	Zinc Plated / Carbon Steel	3/4 x 12	3/4	6	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	5
STB2-75434R10	Zinc Plated / Carbon Steel	3/4 x 4 3/4	3/4	2 5/8	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	10
STB2-75512	Zinc Plated / Carbon Steel	3/4 x 5 1/2	3/4	3 3/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	10
STB2-75512P1	Zinc Plated / Carbon Steel	3/4 x 5 1/2	3/4	3 3/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	1
STB2-75614	Zinc Plated / Carbon	3/4 x 6	3/4	3 15/16	Carbon Steel	Carbon Steel ASTM A	Carbon Steel ASTM	Carbon Steel	10

# Product Submittal

Strong-Bolt® 2 Wedge Anchor (Continued)



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	1/4				563, Grade A	F844	ASTM A 568	
STB2-75700	Zinc Plated / Carbon Steel	3/4 x 7	3/4	4 11/16	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	10
STB2-75812	Zinc Plated / Carbon Steel	3/4 x 8 1/2	3/4	6	Carbon Steel	Carbon Steel ASTM A 563, Grade A	Carbon Steel ASTM F844	Carbon Steel ASTM A 568	10
1. Models STB2-25134, STB2-37214, STB2-50234, STB2-75434 and STB2-62312 do not meet minimum embedment in code report.									

# Product Submittal

Strong-Bolt® 2 Wedge Anchor (Continued)



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