AUTHORIZED STUD MECHANICAL EXPANSION ANCHORS

Туре	Manufacturer	Name	Stud	Model	Min.	Drill Bit	Drill Bit Tip	Installation
			Diameter		Hole	Diameter	Tolerance	Torque
					Depth			
Wedge	Powers	Power	1/4 inch	7400 1/4"	1-1/8"	1/4"	0.260"/0.268"	8 ft-lbs
	Fastners	Stud		φ x 1-3/4"			(min/max)	
	(Rawplug)							
Wedge	Powers	Power	1/2 inch	7422	2-1/4"	1/2"	0.520"/0.530"	60 ft-lbs
	Fastners	Stud		1/2" φ x 3-			(min/max)	
	(Rawplug)			3/4"				
Wedge	Powers	Power	3/4 inch	7440	3-3/8"	3/4"	0.775"/0.787"	175 ft-lbs
	Fastners	Stud		3/4" φ x 4-			(min/max)	
	(Rawplug)			1/4"				
External	Powers	Set-	1/2 inch	7145	1-7/8"	1/2"	0.520"/	50 ft-lbs
Plug	Fastners	Bolt		1/2" φ x 2-			0.530"	
	(Rawplug)			3/4"			(min/max)	
External	Powers	Set-	3/4 inch	7189	2-7/8"	3/4"	0.775"/0.787"	125 ft-lbs
Plug	Fastners	Bolt		3/4" φ x 4-			(min/max)	
	(Rawplug)			1/4"				

- 1. Installation Tool: 3835-0700 is required for installing 1/2-inch diameter external-plug stud-bolt anchor.
- 2. Authorized anchors have been creep tested per CT 681. Washers and nuts should accompany the anchors.
- 3. This table lists basic installation details for authorized anchors, see Caltrans Standard Specifications if manufacturer installation torque is not provided.
- 4. Anchor lengths shown are minimum acceptable lengths the use of longer anchors is permitted without further testing.
- 5. Stud anchor is typically electroplated with Zinc and is not suitable in a corrosive environment.

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Туре	Manufacturer	Name	Stud	Model	Min. Hole	Drill Bit	Drill Bit Tip	Installation
			Diameter		Depth	Diameter	Tolerance	Torque
Wedge	Star	Wedge- Type Stud Bolt	1/2 inch	3535- 36000 1/2" φ x 3- 3/4"	2-1/4"	1/2"	0.520"/0.530" (min/max)	50 ft-lbs
Wedge	Star	Wedge- Type Stud Bolt	3/4 inch	3555- 42000 3/4" φ x 4- 1/4"	3-1/4"	3/4"	0.775"/0.787" (min/max)	175 ft-lbs
External Plug	Star	Stud-Bolt Anchor ¹	1/2 inch	3835- 26000 1/2" φ x 2-3/4"	1-3/4"	1/2"	0.520"/ 0.530" (min/max)	50 ft-lbs

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Туре	Manufacturer	Name	Stud	Model	Min. Hole	Drill Bit	Drill Bit Tip	Installation
			Diameter		Depth	Diameter	Tolerance	Torque
Wedge	ITW	Trubolt	1/4 inch	WS 1432	2"	1/4"	0.260"/0.268"	8 ft-lbs
	Ramset/Red			1/4"φ x 3-			(min/max)	
	Head			1/4"				
Wedge	ITW	Trubolt	3/8 inch	WS 3850	3"	3/8"	0.390"/0.398"	25 ft-lbs
	Ramset/Red			3/8" φ x 5"			(min/max)	
	Head							
Wedge	ITW	Trubolt	5/8 inch	WS 5870	5"	5/8"	0.650"/0.660"	90 ft-lbs
	Ramset/Red			5/6" φ x 7"			(min/max)	
	Head							
Wedge	ITW	Trubolt	3/4 inch	WS 3470	5"	3/4"	0.775"/0.787"	175 ft-lbs
	Ramset/Red			3/4" φ x 7"			(min/max)	
	Head							
External	ITW	Stud Anchor	1/2 inch	JS-12C	1-7/8"	1/2"	0.520"/0.530"	50 ft-lbs
Plug	Ramset/Red			1/2"φ x 2-			(min/max)	
	Head			3/4"				

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Туре	Manufacturer	Name	Stud	Model	Min. Hole	Drill Bit	Drill Bit Tip	Installation
			Diameter		Depth	Diameter	Tolerance	Torque
Wedge	Simpson	Strong Bolt 2	3/8 inch	CS STB2 &	2-7/8"	3/8"	0.390"/0.398"	30 ft-lbs
	Strong Tie			SS STB2			(min/max)	
				3/8" φ x 5"				
Wedge	Simpson	Strong Bolt 2	1/2 inch	CS STB2 &	2-3/4"	1/2"	0.520"/0.530"	60 ft-lbs
	Strong Tie			SS STB2			(min/max)	
				1/2" φ x 5-				
				1/2"				
Wedge	Simpson	Strong Bolt 2	5/8 inch	CS STB2 &	3-3/8"	5/8''	0.650"/0.660"	90 ft-lbs
	Strong Tie			SS STB2			(min/max)	
				5/8" φ x 7"				

- 1. Installation Tool: 3835-0700 is required for installing 1/2-inch diameter external-plug stud-bolt anchor.
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