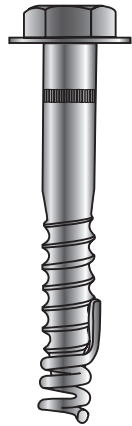


## Boa™ Coil Expansion Anchor



### SPECIFIED FOR ANCHORAGE INTO CONCRETE

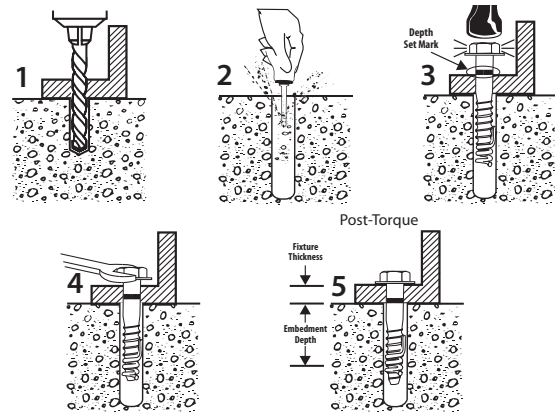
The Boa™ Coil is a high performance expansion anchor providing through fixture fastening and easy removal to keep the job moving. It's reusable with the coil replacement anchors making this anchor a low cost solution.

Ideal combination of value, performance and reusability make the Boa Coil the choice for Forming and tilt-wall contractors



Standard replacement coils for 1/2", 5/8", and 3/4" diameter bolts  
**Replacement coil available for easy re-use with Red Head Boa Coil Anchors only.**

## INSTALLATION STEPS



**NOTE:** To achieve maximum loads the installation process needs to be carried out as follows:

1. Using the fixture as a template, drill the correct diameter and depth hole.
2. Remove debris with vacuum or hand pump.
3. Insert the assembled Boa Coil anchor. (The coil anchor tab points up the anchor.) Tap anchor down to depth set mark and stop.
4. Tighten until washer is firmly held to the fixture and stop. Number of turns to set anchor: 1/2" 3-4 turns, 5/8" and 3/4" 4-5 turns. Ensure washer is tight and snug fit.
5. The Boa Coil anchor is ready to take load. (The bolt can be removed leaving the coil in the hole.)

**The Boa coil anchor can be reused up to 3 times in new holes.**

## PERFORMANCE TABLES

### Boa Coil Anchors Ultimate Concrete/Steel Capacity in Concrete (1)

ANCHOR DIAMETER In. (mm)	HOLE DIA. In. (mm)	EFFECTIVE EMBEDMENT DEPTH In. (mm)	FIXTURE HOLE DIA. In. (mm)	TURNS TO SET ANCHOR	ULTIMATE CONCRETE CAPACITY (2) (3)						ULTIMATE STEEL STRENGTH (4)	
					2,000 PSI (13.8 MPa)		4,000 PSI (27.6 MPa)		6,000 PSI (41.4 MPa)		LBS. (kN)	
					TENSION (5) Lbs. (kN)	SHEAR Lbs. (kN)	TENSION (5) Lbs. (kN)	SHEAR Lbs. (kN)	TENSION (5) Lbs. (kN)	SHEAR Lbs. (kN)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)
1/2 (12.7)	1/2 (12.7)	2 (50.8) 3 (76.2)	9/16 (14.3) 9/16 (14.3)	3-4 3-4	4,039 (17.9) 7,403 (32.9)	6,070 (27.0) 12,082 (53.7)	5,715 (25.4) 10,471 (46.6)	8,590 (38.2) 17,089 (76.0)	6,994 (31.1) 12,822 (57.0)	10,516 (46.8) 20,937 (93.1)	19,384 (86.2)	14,456 (64.3)
5/8 (15.9)	5/8 (15.9)	2-3/8 (60.3) 3-7/8 (98.4)	11/16 (17.5) 11/16 (17.5)	4-5 4-5	5,291 (23.5) 10,855 (48.3)	8,800 (39.1) 19,999 (89.0)	7,483 (33.3) 15,355 (68.3)	12,445 (55.4) 28,285 (125.8)	9,162 (40.8) 18,802 (83.6)	15,242 (67.8) 34,636 (154.0)	30,152 (134.1)	21,937 (97.6)
3/4 (19.1)	3/4 (19.1)	3-1/4 (82.6) 4-1/2 (114.3)	13/16 (20.6) 13/16 (20.6)	4-5 4-5	8,479 (37.7) 13,555 (60.3)	16,567 (73.7) 27,239 (121.2)	11,991 (53.3) 19,171 (85.3)	23,427 (104.2) 38,518 (171.3)	14,682 (65.3) 23,478 (104.4)	28,690 (127.6) 47,173 (209.8)	43,360 (192.9)	32,031 (142.5)

(1) Use lower value of either concrete or steel (2) Concrete capacity based on Concrete Capacity Design method and verified by test data (3) Influence factors must be applied to concrete strength values (4) Steel strength based on .57 Fu Ag for shear and 0.75 Fu Ag for tension (5) Test results when reused four times; maximum 20% reduction in tensile capacity; no reduction in shear

### Boa Coil Anchors Allowable Concrete/Steel Capacity in Concrete (1)

ANCHOR DIAMETER In. (mm)	HOLE DIA. In. (mm)	EFFECTIVE EMBEDMENT DEPTH In. (mm)	FIXTURE HOLE DIA. In. (mm)	TURNS TO SET ANCHOR	RECOMMENDED WORKING LOADS IN CONCRETE (2) (3)						ALLOWABLE STEEL STRENGTH (4)	
					2,000 PSI (13.8 MPa)		4,000 PSI (27.6 MPa)		6,000 PSI (41.4 MPa)		LBS. (kN)	
					TENSION (5) Lbs. (kN)	SHEAR Lbs. (kN)	TENSION (5) Lbs. (kN)	SHEAR Lbs. (kN)	TENSION (5) Lbs. (kN)	SHEAR Lbs. (kN)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)
1/2 (12.7)	1/2 (12.7)	2 (50.8) 3 (76.2)	9/16 (14.3) 9/16 (14.3)	3-4 3-4	1,011 (4.5) 1,852 (8.2)	1,517 (6.7) 3,020 (13.4)	1,430 (6.4) 2,619 (11.6)	2,147 (9.5) 4,272 (19.0)	1,751 (7.8) 3,208 (14.3)	2,629 (11.7) 5,234 (23.3)	8,529 (37.9)	5,579 (24.8)
5/8 (15.9)	5/8 (15.9)	2-3/8 (60.3) 3-7/8 (98.4)	11/16 (17.5) 11/16 (17.5)	4-5 4-5	1,324 (5.9) 2,715 (12.1)	2,200 (9.8) 5,000 (22.2)	1,872 (8.3) 3,840 (17.1)	3,111 (13.8) 7,071 (31.5)	2,293 (10.2) 4,703 (20.9)	3,810 (16.9) 8,660 (38.5)	13,266 (59.0)	8,466 (37.7)
3/4 (19.1)	3/4 (19.1)	3-1/4 (82.6) 4-1/2 (114.3)	13/16 (20.6) 13/16 (20.6)	4-5 4-5	2,121 (9.4) 3,390 (15.1)	4,141 (18.4) 6,810 (30.3)	2,999 (13.3) 4,794 (21.3)	5,556 (24.7) 9,630 (42.8)	3,673 (16.3) 5,872 (26.2)	7,172 (31.9) 11,793 (52.4)	19,078 (84.9)	12,362 (55.0)

(1) Use lower value of either concrete or steel (2) Safety factor 4 (3) Influence factors must be applied to concrete strength values (4) Steel strength based on .22 Fu Ag for shear and 0.33 Fu Ag for tension (5) Test results when reused four times; maximum 20% reduction in tensile capacity; no reduction in shear