

Description

The Boa™ Coil Expansion Anchor is a removable, high strength, heavy duty, rotation setting expansion anchor for concrete. The Boa™ is ideally suited for tough fixing into concrete when cast-in performance or clean removal is required.

Specification

Material - Bolt	Carbon Steel
Corrosion Protection	Zinc Plating
Head Styles	Hex
Fixing Method	Through Fixture
Setting Method	Rotation
Anchoring Method	Expansion
Drilled Hole Diameters	13mm, 16mm, 19mm
Anchor Lengths	75mm, 90mm, 100mm, 115mm, 125mm
Maximum Fixture Thickness*	12mm, 25mm, 30mm, 40mm
Indicative Working	Max Tensile 12.6kN - 19.6kN
Loads in 32MPa Concrete*	Max Shear 15.4kN - 28.4kN
Substrates	Concrete

* Refer to load table



Features & Benefits

- High load capacity is achieved due to the expansion coil locking into the sides of the hole, when set, to give cast-in type performance.
- High clamping load and resistance to cyclic loading result from the pull-down effect achieved through the rotation setting action of the anchor.
- Low profile hex head provides a neat finish.
- Removal is easy, clean and fast, as the expansion coil stays in the hole leaving no protruding metal parts to grind off. The bolt can even be re-used with a new coil.

Related Products

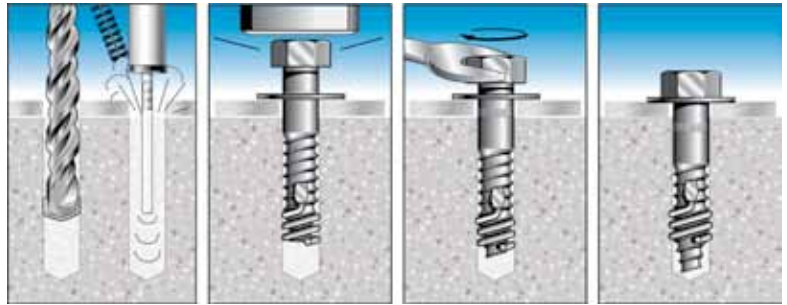
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| DynaDrill™ | Hole Cleaning Pump |
| Carbide Drill Bits | Wet and Dry Vacuum |
| Diamond Motor | Impact Wrench |
| Diamond Core Drill Bits | Boa™ Coils |
| Hole Cleaning Brush | |

Trades & Applications

	Steel Fabricator	Concrete Formworker	Scaffold Contractor	Maintenance Fitter
Installing handrails, balustrades & safety barriers	✓			
Formwork support		✓		
Scaffold support			✓	
Anchoring structural steel columns/beams	✓			
Machinery hold down				✓

Installation

1. Drill or core a hole to the recommended diameter and depth using the fixture as a template. Clean the hole thoroughly with a hole cleaning brush. Remove the debris with a hand pump, compressed air, or vacuum.
2. After ensuring that the anchor is assembled correctly (the coil tab points up the anchor), insert the anchor through the fixture. Tap the anchor down to the depth set mark, with a hammer, and stop.
3. Wind the anchor down, with an appropriately sized spanner or socket wrench, until the washer is firmly held to the fixture and stop (5 turns). Ensure washer is tight and snug fit.
4. The Boa™ Coil anchor is ready to take load. (The bolt can be removed leaving the coil in the hole. To re-insert, follow steps 3 and 4.)



Heavy Duty Anchors



Boa™ Coil Expansion Anchors - Hex Bolt - Zinc Plated

Part No	Anchor Size (mm)	Max Fixture Thickness (mm)	Overall Anchor Length (mm)	Drilled Hole Ø (mm)	Fixture Hole Ø (mm)	Min Hole Depth (mm)	Effective Length (mm)	Order Qty
BAC08075	13	12	75	13	14	90	59	50
BAC08100	13	30	100	13	14	100	84	50
BAC10090	16	12	90	16	19	105	71	25
BAC10125	16	40	125	16	19	130	106	25
BAC12115	19	25	115	19	21	120	93	20

Boa™ Coils Only - Zinc Plated

Coil Only Part No	Order Qty
BAC08	100
BAC10	50
BAC12	50



Boa™ Coil Expansion Anchors - Indicative Working Loads in 32MPa Concrete

Anchor Size	Embedment Depth (mm)	Torque (turns to set)	Min Edge Distance (mm)	Min Anchor Spacing (mm)	Max Tensile Load, N _a (kN)*	Max Shear Load, V _a (kN)*
13	75	5 turns	80	160	12.6	15.4
16	90	5 turns	100	200	18.6	26.0
19	80	5 turns	120	230	19.6	28.4

*The design engineer should ensure the structural element is capable of supporting these loads. Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data.