

# Fast Anchor™ 3 Bolt System



The Fast Anchor 3 is a double corrosion resistant steel bolt for strata control that provides quick assembly and secure installation due to its expansion shell that provides immediate anchorage and generates superior grip upon application. Fast Anchor 3 is designed within the highest quality standard for this type of bolt and performs accordingly.

The injection system allows for a quick and easy grouting operation, where grout enters through the center hole of the bolt from the bottom and fully encapsulates the bolt.

## Features

- Improved advance cycles
- Easy and fast installation
- Immediate anchorage
- Suitable for pre-or post-grouting
- Improved reinforcement cycles
- Improved savings in time and workmanship
- Provide both mechanical and chemical anchorage
- Galvanized option under ASTM 123-9 Standard for corrosion protection
- Plastic sleeve provides additional corrosion protection



## Installation Procedure

1. Drill 2 in. hole diameter. The drill hole length must be longer than the bolt by approx. 2 in.
2. Domed Bearing Plate is fitted to Fast Anchor
3. Insert Fast Anchor into the hole.
4. After placing the bolt in the hole, the bolt is then rotated to anchor the expansion shell to the required tension.
5. Attach grouting adaptor to anchorage.
6. Mix 0.33 to 0.35 W/C grout. Pump grout. Grout is pumped through inner annulus to the bolt end and returns along outer annulus.
7. Terminate grouting with visible grout return.
8. Detach adaptor and proceed to next bolt.

## Technical Data - Fast Anchor 3

Grade		Gr75			
Bolt Size, in. (mm)		.677 (17)	.804 (20)	.914 (23)	#10 (32)
Steel Specification		ASTM F432	ASTM F432	ASTM F432	ASTM A615
Yield ksi (MPa)		83 (572)	83 (572)	75 (517)	75 (517)
Tensile ksi (MPa)		108 (744)	108 (744)	100 (698)	100 (698)
Young's Modulus ksi (GPa)		29000 (200)	29000 (200)	29000 (200)	29000 (200)
Point Anchored Capacity	Yield kip (kN)	27.8 (123)	38.3 (170)	45.4 (201)	72.6 (322)
	Ultimate kip (kN)	36.1 (160)	49.9 (221)	60.5 (269)	96.9 (431)
Fully Grouted Capacity	Yield kip (kN)	30.1 (133)	42 (186)	49.2 (218)	95.2 (423)
	Ultimate kip (kN)	39.2 (174)	54.8 (243)	65.6 (291)	127 (564)
Bar Cross-Sectional Area in <sup>2</sup> (mm <sup>2</sup> )		0.363 (234)	0.508 (327)	0.656 (423)	1.27 (819)
Thread Size/ Spec - in (mm)		3/4"-10 UNC	7/8"-9 UNC	1"-8 UNC	1-1/4"-7 UNC
Nominal Bar Diameter - in (mm)		0.677 (17)	0.804 (20)	0.914 (23)	1.27 (32)
Typical Drill Hole Diameter - in (mm)		2" (51)	2" (51)	2" (51)	2.5" (65)