



# Dynabolt® Sleeve Anchors

## Versatile Heavy-Duty Sleeve Anchors

Description/suggested specifications  
Sleeve Type Anchors

Specified for anchorage into concrete, masonry, grout filled block and hollow block

Sleeve type anchors feature a split expansion sleeve over a threaded stud bolt body and integral expander, nut and washer.

Anchors are made of Plated Carbon Steel, or Type 18-8 Stainless Steel.

Anchors should be installed with carbide tipped hammer drill bits made in accordance to ANSI B212.15-1994.

Anchors are tested to ASTM E488 criteria.

### Approvals/Listings

Meets or exceeds U.S. Government G.S.A. Specification FF-S-325 Group II, Type 3, Class 3

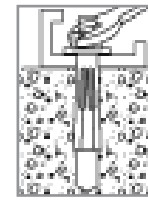
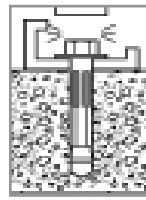
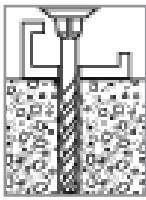
Factory Mutual

SBCCI Compliance Report – #9570

California State Fire Marshal



### Installation Steps



1. Use a bit with a diameter equal to the anchor. See selection chart to determine proper size bit for anchor used. Drill hole to any depth exceeding minimum embedment. Clean hole.

2. Insert assembled anchor into hole, so that washer or head is flush with materials to be fastened.

3. Expand anchor by tightening nut or head 2 to 3 turns.

## Technical Data

### Tension and Shear

Dynabolt Sleeve Anchors Performance Table  
Ultimate Tension and Shear Values In Concrete\* And (Lbs/kN)

Anchor Dia. In. (mm)	Installation Torque Ft. Lbs. (Nm)	Bolt Dia. In. (mm)	Embedment Depth In. (mm)	Anchor Type	f'c = 2000 PSI (13.8 MPa)		f'c = 3000 PSI (20.7 MPa)		f'c = 4000 PSI (27.6 MPa)	
					Tension Lbs. (kN)	Shear Lbs. (kN)	Tension Lbs. (kN)	Shear Lbs. (kN)	Tension Lbs. (kN)	Shear Lbs. (kN)
1/4 (6.4)	3.5 (4.7)	No. 10	1-1/8 (28.6)	Carbon or Stainless	1,200 (5.3)	1,620 (7.2)	1,600 (7.1)	1,620 (7.2)	2,100 (8.5)	1,620 (7.2)
5/16 (7.9)	8 (10.8)	1/4 (6.4)	1-1/4 (31.8)		1,400 (6.2)	2,040 (9.1)	1,920 (8.5)	2,220 (9.9)	2,600 (11.6)	2,400 (10.7)
3/8 (9.5)	14 (19.0)	5/16 (7.9)	1-1/2 (38.1)		1,620 (7.2)	2,560 (11.4)	2,240 (10.0)	2,800 (12.5)	3,100 (13.8)	3,040 (13.5)
1/2 (12.7)	20 (27.1)	3/8 (9.5)	1-7/8 (47.6)		2,220 (9.9)	4,000 (17.8)	3,140 (14.0)	4,500 (20.0)	4,400 (19.6)	5,000 (22.2)
5/8 (15.9)	48 (65.1)	1/2 (12.7)	2 (50.8)		3,080 (13.7)	6,440 (28.6)	4,400 (19.6)	7,240 (32.2)	6,120 (27.2)	8,080 (35.9)
3/4 (19.1)	90 (122.0)	5/8 (15.9)	2-1/4 (57.2)		4,200 (18.7)	10,200 (45.4)	5,940 (26.4)	11,600 (51.6)	8,900 (39.6)	13,100 (58.3)

Dynabolt Sleeve Anchors Performance Table  
Ultimate Tension and Shear Values In Lightweight Concrete (Lbs/kN)\*

Anchor Dia. In. (mm)	Installation Torque Ft. Lbs. (Nm)	Bolt Dia. In. (mm)	Minimum Embedment Depth In. (mm)	Anchor Type	f'c = 4000 PSI (27.6 MPa)		f'c = 6000 PSI (41.4 MPa)	
					Tension Lbs. (kN)	Shear Lbs. (kN)	Tension Lbs. (kN)	Shear Lbs. (kN)
1/4 (6.4)	3.5 (4.7)	No. 10	1-1/8 (28.6)	Carbon or Stainless	1,080 (4.8)	1,620 (7.2)	1,220 (5.2)	1,940 (8.6)
5/16 (7.9)	8 (10.8)	1/4 (6.4)	1-1/4 (31.8)		1,260 (5.6)	1,680 (7.5)	1,440 (6.4)	2,220 (9.9)
3/8 (9.5)	14 (19.0)	5/16 (7.9)	1-1/2 (38.1)		1,620 (7.2)	2,300 (10.2)	2,240 (10.0)	2,800 (12.5)
1/2 (12.7)	20 (27.1)	3/8 (9.5)	1-7/8 (47.6)		2,600 (11.6)	3,920 (17.4)	3,160 (14.1)	4,840 (21.5)
5/8 (15.9)	48 (65.1)	1/2 (12.7)	2 (50.8)		3,240 (14.4)	5,600 (24.9)	4,300 (19.1)	7,840 (34.9)
3/4 (19.1)	90 (122.0)	5/8 (15.9)	2-1/4 (57.2)		3,640 (16.2)	8,640 (38.4)	5,800 (25.8)	12,480 (55.5)