



Trubolt® Wedge Anchors

Dependable, Heavy-Duty, Inspectable, Wedge Type Expansion Anchor

Technical Data

Trubolt Wedge Anchors Performance Table
Ultimate Tension and Shear Values (Lbs/kN) In Concrete*

Anchor Dia. In. (mm)	Installation Torque Ft. Lbs. (Nm)	Embedment Depth In. (mm)	Anchor Type	f'c = 2000 PSI (13.8 MPa)		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)	Tension Lbs. (kN)	Shear Lbs. (kN)
1/4 (6.4)	8 (10.8)	1-1/8 (28.6)	Carbon Steel With Zinc Plating or Carbon Steel With Hot-Dipped Galvanizing or Type 304 Stainless Steel or Type 316 Stainless Steel	1,180 (5.2)	1,400 (6.2)	1,780 (7.9)	1,400 (6.2)	1,900 (8.5)	1,400 (6.2)
		1-15/16 (49.2)		2,100 (9.3)	1,680 (7.5)	3,300 (14.7)	1,680 (7.5)	3,300 (14.7)	1,680 (7.5)
		2-1/8 (54.0)		2,260 (10.1)	3,300 (14.7)	3,300 (14.7)	3,300 (14.7)	1,680 (7.5)	
3/8 (9.5)	25 (33.9)	1-1/2 (38.1)		1,680 (7.5)	2,320 (10.3)	2,240 (10.0)	2,620 (11.7)	2,840 (12.6)	3,160 (14.1)
		3 (76.2)		3,480 (15.5)	4,000 (17.8)	5,940 (26.4)	4,140 (18.4)	6,120 (27.2)	4,500 (20.0)
		4 (101.6)		4,800 (21.4)	5,940 (26.4)	5,940 (26.4)	6,120 (27.2)	4,500 (20.0)	
1/2 (12.7)	55 (74.6)	2-1/4 (57.2)		4,660 (20.7)	4,760 (21.2)	5,100 (22.7)	4,760 (21.2)	7,040 (31.3)	7,040 (31.3)
		4-1/8 (104.8)		4,660 (20.7)	7,240 (32.2)	9,640 (42.9)	7,240 (32.2)	10,820 (48.1)	8,160 (36.3)
		6 (152.4)		5,340 (23.8)	9,640 (42.9)	9,640 (42.9)	10,820 (48.1)	10,820 (48.1)	
5/8 (15.9)	90 (122.0)	2-3/4 (69.9)	6,580 (29.3)	7,121 (31.7)	7,180 (31.9)	7,120 (31.7)	9,720 (43.2)	9,616 (42.8)	
		5-1/8 (130.2)	6,580 (29.3)	9,600 (42.7)	14,920 (66.4)	11,900 (52.9)	16,380 (72.9)	12,520 (55.7)	
		7-1/2 (190.5)	7,060 (31.4)	15,020 (66.8)	15,020 (66.8)	16,380 (72.9)	16,380 (72.9)		
3/4 (19.1)	175 (237.3)	3-1/4 (82.6)	7,120 (31.7)	10,120 (45.0)	10,840 (48.2)	13,720 (61.0)	13,300 (59.2)	15,980 (71.1)	
		6-5/8 (168.3)	10,980 (48.8)	20,320 (90.4)	17,700 (78.7)	23,740 (105.6)	20,260 (90.1)	23,740 (105.6)	
		10 (254.0)	10,980 (48.8)	17,880 (79.5)	17,880 (79.5)	23,580 (104.9)	23,580 (104.9)		
7/8 (22.2)	250 (339.0)	3-3/4 (95.3)	9,520 (42.3)	13,160 (58.5)	14,740 (65.6)	16,580 (73.8)	17,420 (77.5)	19,160 (85.2)	
		6-1/4 (158.8)	14,660 (65.2)	20,880 (92.9)	20,940 (93.1)	28,800 (128.1)	24,360 (108.4)	28,800 (128.1)	
		8 (203.2)	14,660 (65.2)	20,940 (93.1)	20,940 (93.1)	24,360 (108.4)	24,360 (108.4)		
1 (25.4)	300 (406.7)	4-1/2 (114.3)	13,940 (62.0)	16,080 (71.5)	20,180 (89.8)	22,820 (101.5)	21,180 (94.2)	24,480 (108.9)	
		7-3/8 (187.3)	14,600 (64.9)	28,680 (127.6)	23,980 (106.7)	37,940 (168.8)	33,260 (148.0)	38,080 (169.4)	
		9-1/2 (241.3)	18,700 (83.2)	26,540 (118.1)	26,540 (118.1)	33,260 (148.0)	33,260 (148.0)		
1-1/4 (31.8)	500 (677.9)	5-1/2 (139.7)	18,140 (80.7)	23,280 (103.6)	26,380 (117.3)	29,460 (131.0)	33,640 (149.6)	33,780 (150.3)	
		8 (203.2)	27,340 (121.6)	35,080 (156.0)	43,300 (192.6)	44,260 (196.9)	45,540 (202.6)	50,560 (224.9)	

* Allowable values are based upon a 4 to 1 safety factor. Divide by 4 for allowable load values.

Trubolt Wedge Anchors Performance Table
Ultimate Tension and Shear Values (Lbs/kN) In Lightweight Concrete*

Anchor DIA. In. (mm)	Installation Torque Ft. Lbs. (Nm)	Embedment Depth In. (mm)	Anchor Type	Lightweight Concrete f'c = 3000 PSI (20.7 MPa)		Lower Flute Of Steel Deck with Lightweight Concrete Fill f'c = 3000 PSI (20.7 MPa)	
				Tension Lbs. (kN)	Shear Lbs. (kN)	Tension Lbs. (kN)	Shear Lbs. (kN)
3/8 (9.5)	25 (33.9)	1-1/2 (38.1)	Carbon Steel With Zinc Plating or Carbon Steel With Hot-Dipped Galvanizing or Type 304 Stainless Steel or Type 316 Stainless Steel	2,120 (9.4)	3,720 (16.5)	1,900 (8.5)	3,160 (14.1)
		3 (76.2)		2,940 (13.1)	4,240 (18.9)	2,840 (12.6)	4,000 (17.8)
1/2 (12.7)	55 (74.6)	2-1/4 (57.2)		3,600 (16.0)	7,040 (31.3)	3,400 (15.1)	5,380 (23.9)
		3 (76.2)		4,720 (21.0)	6,620 (29.4)	4,480 (19.9)	6,620 (29.4)
5/8 (15.9)	90 (122.0)	4 (101.6)		--	6,920 (30.8)	4,800 (21.4)	6,440 (28.6)
		3 (76.2)		6,000 (26.7)	9,240 (41.1)	4,720 (21.0)	5,500 (24.5)
3/4 (19.1)	175 (237.3)	5 (127.0)		5,960 (26.5)	9,280 (41.3)	6,580 (29.3)	9,140 (40.7)
		3-1/4 (82.6)		7,160 (31.9)	12,600 (56.0)	5,840 (26.0)	8,880 (39.5)
		5-1/4 (133.4)		8,900 (39.6)	15,920 (70.8)	7,040 (31.3)	--

* Allowable values are based upon a 4 to 1 safety factor. Divide by 4 for allowable load values.