

PERFORMANCE TABLE

LDT Anchors Ultimate Tension and Shear Values (Lbs/kN) in Concrete

ANCHOR DIA. In. (mm)	EMBEDMENT DEPTH In. (mm)	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)
3/8 (9.5)	1-1/2 (38.1)	1,336 (5.9)	2,108 (9.4)	1,652 (7.3)	2,764 (12.3)	1,968 (8.8)	3,416 (15.2)
	2 (50.8)	1,492 (6.6)	3,036 (13.5)	2,024 (9.0)	3,228 (14.4)	2,552 (11.4)	3,420 (15.2)
	2-1/2 (63.5)	3,732 (16.6)	3,312 (14.7)	3,748 (16.7)	3,364 (15.0)	3,760 (16.7)	3,424 (15.2)
	3-1/2 (88.9)	5,396 (24.0)	3,312 (14.7)	6,624 (29.5)	3,368 (15.0)	7,852 (34.9)	3,428 (15.2)
5/8 (15.9)	2-3/4 (69.9)	5,276 (23.5)	8,656 (38.5)	6,560 (29.2)	11,064 (49.2)	7,844 (34.8)	13,476 (59.9)
	3-1/2 (88.9)	7,972 (35.5)	10,224 (45.5)	9,848 (43.8)	12,144 (54.0)	11,724 (52.2)	14,060 (62.5)

For allowable values use a 4 to 1 safety factor (Ultimate/4 or Ultimate*0.25)**

LDT Anchors Recommended Edge & Spacing Requirements for Shear Loads* Carbon Steel

ANCHOR DIA. In. (mm)	EMBEDMENT DEPTH In. (mm)	EDGE DISTANCE REQUIRED TO OBTAIN MAX. WORKING LOAD In. (mm)	LOAD FACTOR APPLIED AT MIN. EDGE DISTANCE 1-3/4 Inches (44mm)	SPACING DISTANCE REQUIRED TO OBTAIN MAX. WORKING LOAD In. (mm)	LOAD FACTOR APPLIED AT MIN. SPACING DISTANCE 3 Inches (76mm)
3/8 (9.5)	1-1/2 (38.1)	3 (76.2)	25%	6 (152.4)	57%
	2 (50.8)	4 (101.6)	25%	6 (152.4)	57%
	2-1/2 (63.5)	5 (127.0)	25%	6 (152.4)	57%
	3-1/2 (88.9)	5 (127.0)	25%	6 (152.4)	57%
5/8 (15.9)	2-3/4 (69.9)	6-1/4 (158.8)	15%** / 60%***	10 (254.0)	75%
	3-1/2 (88.9)	6-1/4 (158.8)	15%** / 60%***	10 (254.0)	75%

* Edge and spacing distances shall be divided by .75 when anchors are placed in structural lightweight concrete. Linear interpolation may be used for intermediate spacing and edge distances.

** 15% = shear load applied perpendicular to the edge

*** 60% = shear load applied parallel to the edge

LDT Anchors *Recommended Edge & Spacing Requirements for Shear Loads* Carbon Steel*

ANCHOR DIA. In. (mm)		EMBEDMENT DEPTH In. (mm)		EDGE DISTANCE REQUIRED TO OBTAIN MAX. WORKING LOAD In. (mm)		LOAD FACTOR APPLIED AT MIN. EDGE DISTANCE 1-3/4 Inches (44mm)		SPACING DISTANCE REQUIRED TO OBTAIN MAX. WORKING LOAD In. (mm)		LOAD FACTOR APPLIED AT MIN. SPACING DISTANCE 3 Inches (76mm)	
3/8	(9.5)	1-1/2	(38.1)	3	(76.2)	25%		6	(152.4)	57%	
		2	(50.8)	4	(101.6)	25%		6	(152.4)	57%	
		2-1/2	(63.5)	5	(127.0)	25%		6	(152.4)	57%	
		3-1/2	(88.9)	5	(127.0)	25%		6	(152.4)	57%	
5/8	(15.9)	2-3/4	(69.9)	6-1/4	(158.8)	15%** / 60%***		10	(254.0)	75%	
		3-1/2	(88.9)	6-1/4	(158.8)	15%** / 60%***		10	(254.0)	75%	

* Edge and spacing distances shall be divided by .75 when anchors are placed in structural lightweight concrete. Linear interpolation may be used for intermediate spacing and edge distances.

** 15% = shear load applied perpendicular to the edge

*** 60% = shear load applied parallel to the edge

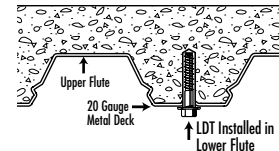
LDT Anchors *Ultimate Tension Load (Lbs/kN) in Concrete Block (anchors should be installed by hand in hollow block)*

ANCHOR DIA. In. (mm)		EMBEDMENT DEPTH In. (mm)		HOLLOW CONCRETE BLOCK		GROUT FILLED CONCRETE BLOCK	
				TENSION Lbs. (kN)	SHEAR Lbs. (kN)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)
3/8	(9.5)	1-1/2	(38.1)	916 (4.1)	3,176 (14.1)	1,592 (7.1)	3,900 (17.3)

LDT Anchors *Allowable Tension and Shear* (Lbs/kN) in Concrete Block (anchors should be installed by hand in hollow block)*

ANCHOR DIA. In. (mm)		EMBEDMENT DEPTH In. (mm)		HOLLOW CONCRETE BLOCK		GROUT FILLED CONCRETE BLOCK	
				TENSION Lbs. (kN)	SHEAR Lbs. (kN)	TENSION Lbs. (kN)	SHEAR Lbs. (kN)
3/8	(9.5)	1-1/2	(38.1)	229 (1.0)	794 (3.5)	398 (1.8)	975 (4.3)

* Allowable values are based upon a 4 to 1 safety factor. (Ultimate/4)



LDT Anchors *Anchoring Overhead in 3000 PSI Lightweight Concrete On Metal Deck*

ANCHOR	DRILL HOLE DIAMETER In. (mm)	EMBEDMENT In. (mm)	3000PSI (20.7 MPa) CONCRETE				
				ULTIMATE TENSION LOAD Lbs. (kN)		ALLOWABLE WORKING LOAD Lbs. (kN)	
3/8" LDT	5/16 (7.9)	1-1/2 (38.1)	Upper Flute	2,889	(12.9)	722	(3.2)
			Lower Flute	1,862	(8.3)	465	(2.1)