

LDT Large Diameter Tapcon

SELF-THREADING ANCHOR

The high performance concrete anchor that cuts its own threads!

- Fast installation
just drill with standard ANSI bit and drive
no nut and washer assembly
- Finished hex washer head
length identification head stamp
"Anti-Rotation" serrated washer
- Close edge/spacing distance
equals performance of adhesive anchors
higher loads at shallow embedments
- Easily removed
durable induction hardened tip



Patented Sawtooth[™] threads for easier installation in 5/8" and 3/4" sizes



Ideal for: seating, shelving, railings, racking, sill plate attachment, guard-rails, conveyors, material handling, mezzanine or any application you need to place a removable hex-head anchor *fast*.

Saves time

- Installs in less than half the time of wedge or adhesive anchors
- Simply drill a pilot hole with a standard bit and drive the LDT anchor
- Dramatically reduces installation labor
- Patented Sawtooth™ threads allow easy installation for larger (5/8" and 3/4") diameter anchors

Finished head

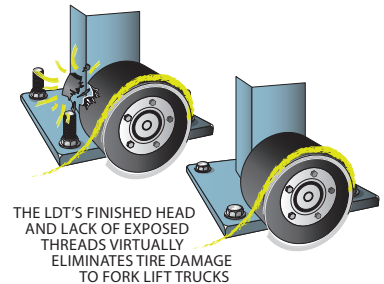
- Anti-rotation serrations on the washer prevent backout
- The head of each anchor is stamped with a length identification code for easy inspection
- Absence of exposed threads on warehouse floors eliminates damage to fork lift tires

Closer edge & spacing distances

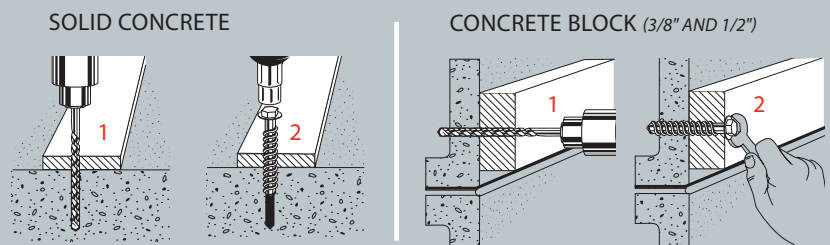
- LDT anchors don't stress concrete like wedge anchors allowing closer edge placements (similar to adhesive anchors)
- Equals performance of adhesive anchors

Easily Removed

- No torching or grinding required to remove anchors
- Easy replacement lowers maintenance costs
- Re-usable (in same hole only)



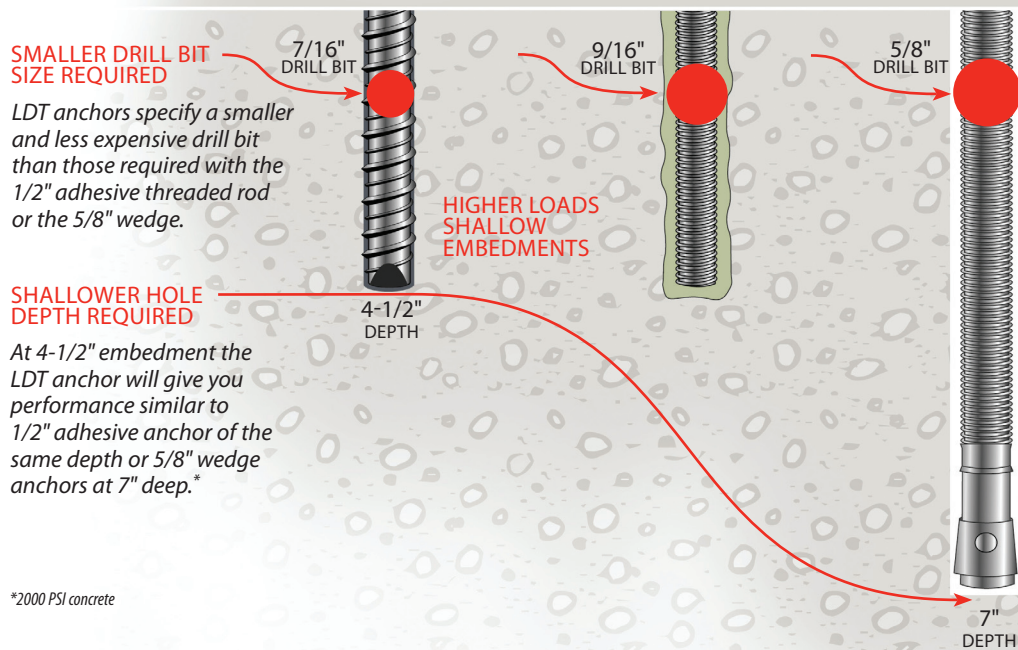
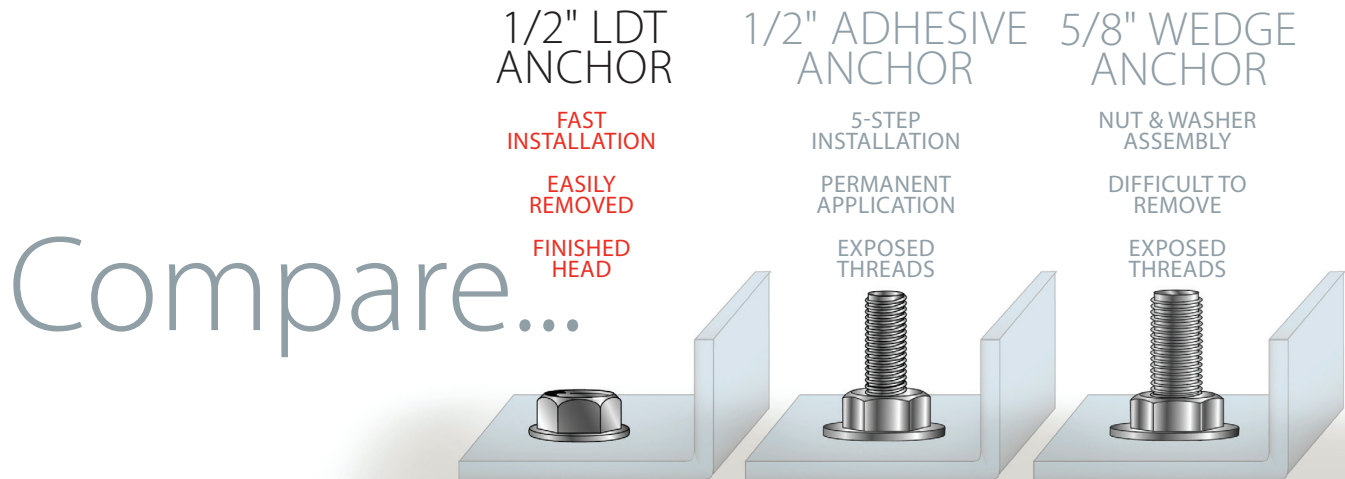
Easy two-step installation for solid and hollow applications



Installs easily with a socket wrench by hand or by impact wrench for faster installation and high volume projects*

*Impact wrench installation is not recommended for hollow block (CMU) applications

—Remove dust from hole or drill 1" deeper than anchor embedment



Performance Table

Normal Weight Concrete

Ultimate[†] Shear and Tension Values (Lbs/kN)

ANCHOR DIAMETER in. (mm)	EMBEDMENT DEPTH in. (mm)	2000 PSI (13.8 MPa)		4000 PSI (27.6 MPa)	
		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)	1,968 (8.7)	3,416 (15.2)
	2 (50.8)	1,492 (6.6)	3,036 (13.5)	2,552 (11.3)	3,420 (15.2)
	2-1/2 (63.5)	3,732 (16.6)	3,312 (14.7)	3,760 (16.7)	3,424 (15.2)
	3-1/2 (88.9)	5,396 (23.9)	3,312 (14.7)	7,852 (34.9)	3,428 (15.2)
1/2 (12.7)	2 (50.8)	3,580 (15.9)	5,644 (25.1)	4,236 (18.8)	7,380 (32.8)
	3-1/2 (88.9)	7,252 (32.2)	6,436 (28.6)	8,836 (39.3)	8,140 (36.2)
	4-1/2 (114.3)	10,176 (45.2)	7,384 (32.8)	10,488 (46.6)	8,552 (38.0)
5/8 (15.9)	2-3/4 (69.9)	5,277 (23.4)	8,656 (38.5)	7,845 (34.9)	13,475 (59.9)
	3-1/2 (88.9)	7,973 (35.4)	10,225 (45.4)	11,722 (52.1)	14,059 (62.5)
	4-1/2 (114.3)	11,569 (51.4)	12,317 (54.7)	16,891 (75.1)	14,839 (65.9)
3/4 (19.1)	3-1/4 (82.6)	6,874 (30.6)	7,138 (31.7)	12,636 (56.2)	14,314 (63.6)
	4-1/2 (114.3)	10,304 (45.8)	13,120 (58.3)	18,541 (82.4)	20,612 (91.6)
	5-1/2 (139.7)	13,048 (58.0)	17,906 (79.6)	23,266 (103.4)	25,650 (114)

[†]Allowable load should not exceed 25% of ultimate load values.

Length Indication Code

Located on top of anchor for easy inspection

CODE	LENGTH OF ANCHOR	
	In.	(mm)
A	1-1/2 < 2	(38.1 < 50.8)
B	2 < 2-1/2	(50.8 < 63.5)
C	2-1/2 < 3	(63.5 < 76.2)
D	3 < 3-1/2	(76.2 < 88.9)
E	3-1/2 < 4	(88.9 < 101.6)
F	4 < 4-1/2	(101.6 < 114.3)
G	4-1/2 < 5	(114.3 < 127.0)
H	5 < 5-1/2	(127.0 < 139.7)
I	5-1/2 < 6	(139.7 < 152.4)
J	6 < 6-1/2	(152.4 < 165.1)

THE ANCHOR HEAD IS STAMPED WITH A CODE FOR EASY IDENTIFICATION FOR POST INSTALLATION INSPECTION

LDT Large Diameter Tapcon

Selection Chart

LDT™ Carbon Steel with Zinc Plating

PART NUMBER	ANCHOR DIAMETER		SOCKET SIZE	DRILL BIT DIAMETER		EFFECTIVE LENGTH		MAX. THICKNESS OF MATERIAL TO BE FASTENED		QTY/WT PER BOX	QTY/WT PER MASTER CARTON
	in.	(mm)		in.	(mm)	in.	(mm)	in.	(mm)	lbs.	lbs.
LDT-3816	3/8	(9.5)	9/16	5/16	(7.9)	1-3/4	(44.5)	1/4	(6.4)	50 / 3.0	400 / 24.0
LDT-3824	3/8	(9.5)		5/16	(7.9)	2-1/2	(63.5)	1	(25.4)	50 / 4.5	400 / 34.0
LDT-3830	3/8	(9.5)		5/16	(7.9)	3	(76.2)	1-1/2	(38.1)	50 / 5.0	400 / 40.0
LDT-3840	3/8	(9.5)		5/16	(7.9)	4	(101.6)	2-1/2	(63.5)	50 / 6.5	400 / 52.0
LDT-3850	3/8	(9.5)		5/16	(7.9)	5	(127.0)	3-1/2	(89.0)	40 / 7.5	320 / 60.0
LDT-1230	1/2	(12.7)	3/4	7/16	(11.1)	3	(76.2)	1	(25.4)	25 / 4.5	150 / 27.0
LDT-1240	1/2	(12.7)		7/16	(11.1)	4	(101.6)	2	(50.8)	25 / 6.0	150 / 36.6
LDT-1250	1/2	(12.7)		7/16	(11.1)	5	(127.0)	3	(76.2)	25 / 7.6	150 / 45.6
LDT-1260	1/2	(12.7)		7/16	(11.1)	6	(152.4)	4	(101.6)	20 / 9.0	120 / 54.0
LDT-5830	5/8	(15.9)	13/16	1/2	(12.7)	3	(76.2)	1/4	(6.4)	10 / 3.5	100 / 35.0
LDT-5840	5/8	(15.9)		1/2	(12.7)	4	(101.6)	1-1/4	(31.8)	10 / 4.0	100 / 40.0
LDT-5850	5/8	(15.9)		1/2	(12.7)	5	(127.0)	2-1/4	(57.1)	10 / 4.7	100 / 47.0
LDT-5860	5/8	(15.9)		1/2	(12.7)	6	(152.4)	3-1/4	(82.6)	10 / 5.4	50 / 27.0
LDT-3444	3/4	(19.1)	15/16	5/8	(15.9)	4-1/2	(114.3)	1-1/4	(31.8)	10 / 7.4	50 / 37.0
LDT-3454	3/4	(19.1)		5/8	(15.9)	5-1/2	(139.7)	2-1/4	(57.1)	10 / 8.1	50 / 40.5
LDT-3462	3/4	(19.1)		5/8	(15.9)	6-1/4	(158.8)	3	(76.2)	10 / 9.1	30 / 27.3



3/8" & 1/2"

5/8" & 3/4"

Approvals / Listings

3/8" Diameter | **1/2" Diameter**

City of Los Angeles #RR25498
Miami Dade Approved

5/8" Diameter | **3/4" Diameter**

Miami Dade Approved



MADE IN USA

© 2008 Illinois Tool Works.
Red Head is a registered trademark of Illinois Tool Works Inc.
RH008 09/08

ITW Red Head®

800-899-7890
www.itwredhead.com
2171 Executive Drive, Suite 100
Addison, IL 60101