



BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

## NOTICE OF ACCEPTANCE (NOA)

ITW Ramset/Red Head.  
1300 N. Michael Drive  
Wood Dale, IL 60191

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone.

### DESCRIPTION: LTD Anchors.

**APPROVAL DOCUMENT:** Drawing No. 04-090, Sheets 1 of 1, titled "LTD Anchor" dated 10/21/04 with no revisions, prepared by Thornton Tomasetti Group, signed and sealed by V. J. Knezevich PE, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance (NOA) number and approval date by the Miami-Dade County Product Control Division.

### MISSILE IMPACT RATING: None

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence page as well as approval document mentioned above.

The submitted documentation was reviewed by **Candido F. Font, P.E.**



*[Signature]*  
12/30/04

NOA No 04-1025.08  
Expiration Date: December 30, 2009  
Approval Date: December 30, 2004  
Page 1

**ITW Ramset/Red Head.**

**NOTICE OF ACCEPTANCE: EVIDENCE PAGE**

**A DRAWINGS:**

1. Drawings prepared by Thornton Tomasetti Group, titled "LTD Anchor", Drawing No. 04-090, dated 10/21/04 with no revisions, sheet 1 of 1, signed and sealed by V.J. Knezevich PE.

**B TEST:**

- |    | Laboratory No.  | Test Report.      | Date.    | Signature       |
|----|-----------------|-------------------|----------|-----------------|
| 1. | ARL 30549       | PA 114 Appendix E | 06/14/04 | C. A. Hamon PE. |
| 2. | ATI 01-49329.01 | ASTM E 488        | 04/23/04 | J. A. Reed PE   |

**C CALCULATIONS:**

N/A

**D QUALITY ASSURANCE.**

1. Miami-Dade Quality Control Division.

**E MATERIAL CERTIFICATIONS:**

N/A

**F STATEMENTS:**

1. Code compliance letter issued by Thornton Tomasetti Group on 10/21/04 signed and sealed by V. J. Knezevich PE.
2. No financial interest letter issued by LZA Technology on 08/31/04, signed by V.J. Knezevich PE and notarized by C. Heiss.



Candido F. Font, P.E.

Senior Product Control Examiner

NOA No 04-1025.08

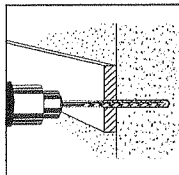
Expiration Date: December 30, 2009

Approval Date: December 30, 2004

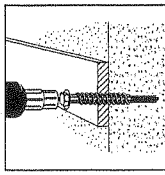
# LDT ANCHOR

## INSTALLATION STEPS FOR CONCRETE

1. USING THE PROPER SIZE CARBIDE BIT (SEE TABLE 1), DRILL A HOLE INTO THE CONCRETE AT LEAST 1" DEEPER THAN THE ANCHOR EMBED. DEPTH. CLEAR THE HOLE OF FINES WITH AIR.

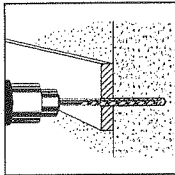


2. USING AN ELECTRICAL IMPACT WRENCH, INSERT ANCHOR INTO THE HOLE AND TIGHTEN UNTIL FULLY SEATED ON THE FIXTURE.



## INSTALLATION STEPS FOR HOLLOW CMU

1. USING A 1/4" CARBIDE BIT (FOR THE 3/8" ANCHOR) OR 5/16" CARBIDE BIT (FOR THE 5/8" ANCHOR), DRILL A HOLE THROUGH THE FACE SHELL OF THE CMU BLOCK. CLEAR THE HOLE OF FINES WITH AIR.



2. USING AN ELECTRICAL IMPACT WRENCH, INSERT ANCHOR INTO THE HOLE AND TIGHTEN UNTIL FULLY SEATED ON THE FIXTURE.

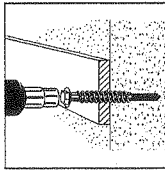


FIGURE 3  
N.T.S.

## GENERAL NOTES:

1. THIS ANCHOR IS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 2001 WITH THE 2002 & 2003 REVISIONS INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) PROVISIONS.
2. THE LDT ANCHOR IS A ONE-PIECE, FINISHED HEAD, SCREW-TYPE ANCHOR. BODIES ARE MADE OF HARDENED CARBON STEEL AND ARE ZINC PLATED. THE ANCHORS ARE MANUFACTURED WITH A FINISH HEX WASHER HEAD CONTAINING ANTI-ROTATION SERRATIONS TO PREVENT ANCHOR BACK-OUT.
3. ANCHOR INSTALLATION SHALL BE MADE IN ACCORDANCE WITH THE ITW RAMSET/RED J HEAD INSTALLATION INSTRUCTIONS AND THIS MIAMI-DADE COUNTY, FLORIDA B.C.C.O. NOTICE OF ACCEPTANCE.
4. ALLOWABLE LOAD EQUALS THE ULTIMATE LOAD DIVIDED BY FOUR.
5. MINIMUM EDGE DISTANCES AND SPACINGS FOR 100% OF ALLOWABLE LOAD ARE SHOWN IN TABLE 1 & 2.
6. THE LENGTH OF THE ANCHOR IS INDICATED BY THE LENGTH ID HEAD STAMP. SEE FIGURE 2 AND TABLE 3.
7. REFERENCE ARCH. TESTING INC. REPORT No. 01-49329.01.
8. CONCRETE SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE MANUAL OF CONCRETE PRACTICE, ACT 301.

END STAMP  
LOCATION MUST BE  
CLEAR AND LEGIBLE

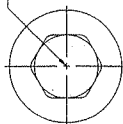


FIGURE 2.  
EXPPOSED END OF THE ANCHOR IS  
STAMPED TO IDENTIFY ANCHOR IS  
LENGTH. STAMPINGS SHOULD BE  
CLEAR AND LEGIBLE. NO STAMPING  
FOR ANY SUBSEQUENT EMBEDMENT  
VERIFICATION. (SEE TABLE 3)

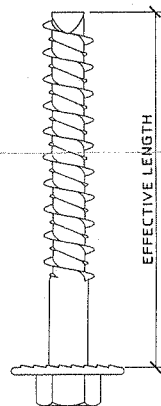


FIGURE 1  
N.T.S.

ALLOWABLE LOADS IN MIN. 3500 P.S.I. CONCRETE					
ANCHOR DIAMETER (IN)	DRILL BIT DIA. (IN)	EMBED. (IN)	EDGE DIST (IN)	ANCHOR ALLOWABLE TENSION (LB)	ANCHOR ALLOWABLE SHEAR (LB)
1/2	5/16	1-1/2	6	458	1,259
5/8	7/16	2	8	963	2,167
3/4	1/2	2-3/4	10	1,452	3,005
1	5/8	3-1/4	12	1,878	4,422

ALLOWABLE LOADS IN HOLLOW CMU (ASTM C-90)					
ANCHOR DIAMETER (IN)	DRILL BIT DIA. (IN)	EMBED. (IN)	EDGE DIST (IN)	ANCHOR ALLOWABLE TENSION (LB)	ANCHOR ALLOWABLE SHEAR (LB)
3/8	1/4	1-1/2	6	284	561

PART NO.	ANCHOR DIAMETER (IN)	EFFECTIVE LENGTH (IN)	HEAD STAMP
LDT-3816		1-3/4	A
LDT-3824		2-1/2	C
LDT-3830	3/8	3	D
LDT-3840		4	F
LDT-3850		5	H
LDT-1230		3	D
LDT-1240	1/2	4	F
LDT-1250		5	H
LDT-5830		3	D
LDT-5840	5/8	4	F
LDT-5850		5	H
LDT-5860		6	J
LDT-3444		4-1/2	G
LDT-3454	3/4	5-1/2	I
LDT-3462		6-1/4	J

Approved as complying with the  
Florida Building Code  
Date: 12/30/04  
By: ROAF DT-102 SCS  
Miami Dade Product Control  
By: [Signature]

REVISIONS

date 10/21/2004  
code AS NOTED  
designed by MCR  
checked by JVK  
drawing no. 04-090

sheet 1 of 1

LDT ANCHOR

1300 N. Michael Dr.  
Wood Dale, IL 60191



V.J. Knezevich  
Professional Engineer  
FL License No. 94100108

OCT 21 2004

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