



**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)

**Hilti, Inc.
5400 S. 122nd East Avenue
Tulsa OK 74146**

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: Kwik Bolt 3 Concrete Expansion Anchor.

APPROVAL DOCUMENT: Drawing No. **543-003-C**, Sheets 1 of 1, titled "Hilti Kwik Bolt 3 Mechanical Expansion Anchor for Concrete and Masonry Elements" dated 11/12/98 with last revision on 10/31/06, prepared by T. E. Lunn PE Engineering, signed and sealed by T. E. Lunn 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 or box shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved or MDCPCA", 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 consist of this page 1, evidence page as well as approval document mentioned above.

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



Candido F. Font
12/28/06

**NOA No 06-0810.13
Expiration Date: December 28, 2011
Approval Date: December 28, 2006
Page 1**

Hilti, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE PAGE

A DRAWINGS:

1. Drawings prepared by T.E. Lunn PE Engineering, titled "Hilti Kwik Bolt 3 Mechanical Expansion Anchor for Concrete and Masonry Elements"; Drawing No. 543-003-C, dated 11/12/98 with last revision on 10/31/06, sheet 1 of 1, signed and sealed by T.E. Lunn PE.

B TEST:

	Laboratory No.	Test Report.	Date.	Signature
1.	CEL 51792C	ASTM E488	05/22/06	L.W. Mattis PE.
2.	STTS 99-0513.01	ASTM G85 Annex 5	08/25/05	M. Mosbat PE.

C CALCULATIONS:

N/A

D QUALITY ASSURANCE.

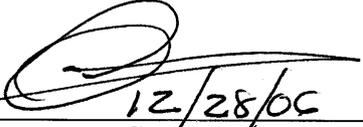
1. Building Code Compliance Office.

E MATERIAL CERTIFICATIONS:

N/A

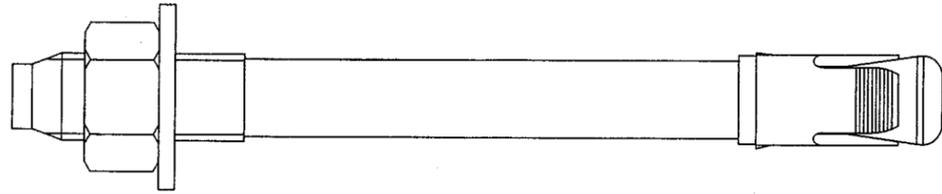
F STATEMENTS:

1. No interest letter issued by T.E. Lunn on 07/20/06, signed and sealed by T.E. Lunn, PE.
2. Code compliance letter issued by T.E. Lunn on 07/20/06 signed and sealed by T. E. Lunn, PE.


12/28/06
Candido F. Font, P.E.
Senior Product Control Examiner
NOA No 06-0810.13
Expiration Date: December 28, 2011
Approval Date: December 28, 2006

DESCRIPTION:

HILTI Kwik Bolt 3 is a stud type expansion anchor with a single piece wedge which expands in concrete and CMU when torque is applied. They are supplied with a nut and washer.



Anchor Diameter (in.)	Fracture Load (lb)
1/4	2,900
3/8	7,200
1/2	12,400
5/8	19,600
3/4	28,700

MATERIAL CHARACTERISTICS:

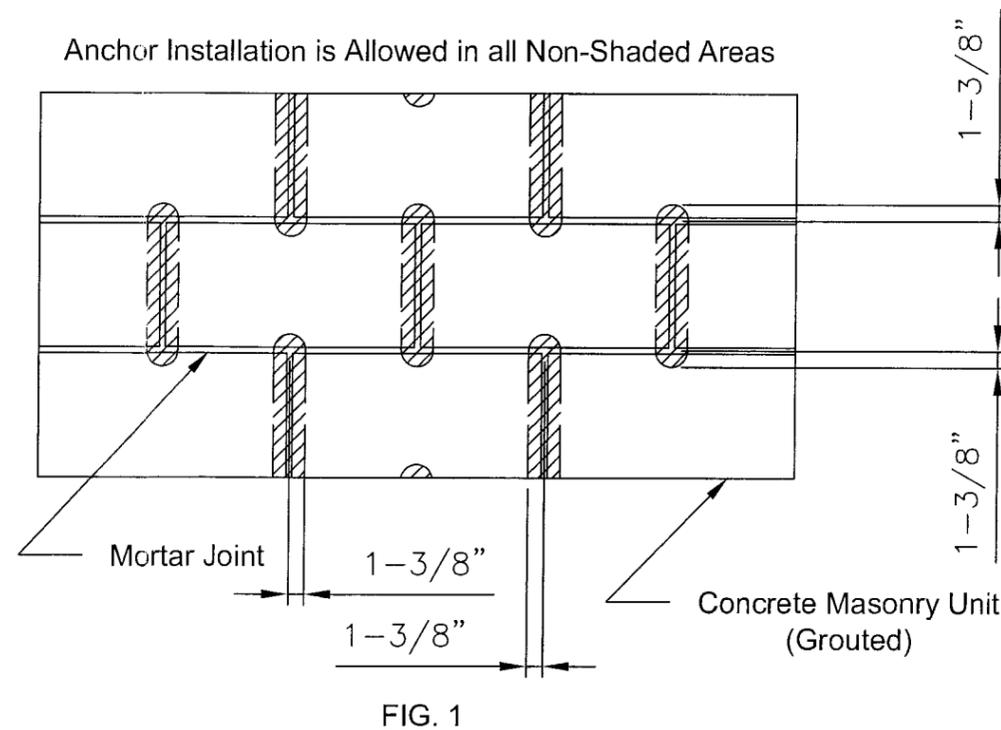
1" carbon steel studs, conform to AISI 11L41.
 Nuts are carbon steel conforming to ASTM A563 Grade A and meet dimensional requirements of ANSI B18.2.2.
 Washers are made from carbon steel conforming to ASTM F844 and meet dimensional requirements of ANSI 18.22.1 Type A plain.
 All 3/8", 1/2", 5/8", and 3/4" wedges are made from carbon steel.
 All 1/4" and 1" wedges are made from stainless steel.

GENERAL NOTES:

- 1) Design values in pounds are equal to ultimate load divided by 4.
- 2) Edge distance shall be 1.75 times the minimum embedment for tension and 3 times the minimum embedment for shear. Anchor center to center distance shall be 3 times the minimum embedment.
- 3) Anchor installation shall be made in accordance with Hilti's published installation instructions in the Product Technical Guide. Limit one anchor per cell.
- 4) Anchor installation in grouted concrete masonry units require a minimum 12" distance and 8" spacing. Limit one anchor per cell.
 Avoid installation within 1-3/8" of any vertical mortar joint. See Figure 1.
- 5) Values shown are for shear plane through the anchor body.
- 6) When the shear plane is acting through the anchor threads, reduce the shear by 10%.
- 7) When the shear plane is acting through the anchor threads, reduce the shear by 6%.
- 8) When the shear plane is acting through the anchor threads, reduce the shear by 20%.

DESIGN VALUES:

Dia. (in.)	Min. Embed. (in.)	3000 psi		CMU Grouted	
		Tension	Shear	Tension	Shear
1/4	2	623	458	-	-
3/8	2-1/2	1355	1460 ⁶	780	1155
1/2	3-1/2	2185	2343 ⁷	905	1723
5/8	4	2870	4885 ⁸	1295	1723
3/4	4-3/4	3635	6173	-	-
1	6	4808	9200	-	-



T.E. LUNN, PE ENGINEERING

23 THURSTON DR.
 PALM BEACH GARDENS, FL. 33418
 OFC: (561) 625-6455
 FAX: (561) 625-4883
 EMAIL: telunn@gte.net

FLORIDA REG. # 26119

[Handwritten Signature]
 11.6.06

HILTI, INC.
 5400 S 122nd E Ave
 Tulsa, OK 74146

HILTI KWIK BOLT 3
 MECHANICAL
 EXPANSION ANCHOR
 FOR CONCRETE
 AND MASONRY
 ELEMENTS

REVISION DATE: 31-10-06
 DATE: 11-12-98
 DRAWING: 543-003-C
 SCALE: 1" = 1"
 SHEET NO. 1 OF 1

FOR OFFICE USE

Approved as complying with the
 Florida Building Code
 Date: 12/28/06
 NCAR 06-0810.13
 Miami-Dade District Control
 Division
 By: *[Signature]*