



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

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Hilti, Inc.
5400 S. 122nd E. Ave.
Tulsa ,OK 74146

Your application for Notice of Acceptance (NOA) of:

Hilti Kwik Bolt-II Concrete Expansion Anchors

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-1001.03
EXPIRES: 11/04/2006

Raul Rodriguez
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 12/13/2001



Hilti, Inc.

ACCEPTANCE NO: 01-1001.03

APPROVED: DEC 13 2001

EXPIRES: 11/04/2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 98-0901.13 which was issued on 01/20/99. It approves concrete anchors as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County. For the locations where the actual loads as determined by SFBC Chapter 23, do not exceed the allowable load indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The **Hilti Kwik Bolt II** shall be fabricated and used in strict compliance with the following documents: Drawing No. 543-003-A, titled "Hilti Kwik Bolt II Mechanical Expansion Anchor for concrete and Masonry Elements", prepared by Hilti, Inc. dated 11/12/98 with no revisions, sheet 1 of 1, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 Allowable loads are for 3000 psi compressive strength Concrete and Grout Filled Concrete blocks per ASTM C90.

4. INSTALLATION

4.1 The concrete anchor shall be installed in strict compliance with the installation instructions published by Hilti, Inc.

5. LABELING

5.1 Each concrete anchors shall have a mark identifying the manufacturer and each box of anchors shall have a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved".

6. BUILDING PERMIT

6.1 Application for Building Permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings as identified in Section 2 of this Notice of Acceptance, clearly marked to show the hangers and angles selected for the proposed installation.

6.1.3 Any other document required by the Building Official or the SFBC in order to properly evaluate the installation of these products.



Candido Font, PE, Sr. Product Control Examiner
Product Control Division

Hilti, Inc.

ACCEPTANCE NO: 01-1003.01

APPROVED: DEC 13 2001

EXPIRES: 11/04/2006

NOTICE OF ACCEPTANCE STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process.
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.



Candido Font, PE, Sr. Product Control Examiner
Product Control Division

END OF THIS ACCEPTANCE

Hilti, Inc.

ACCEPTANCE NO: 01-1001.03

APPROVED: DEC 13 2001

EXPIRES: 11/04/2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS
(For File ONLY. Not part of NOA)

A DRAWINGS:

1. Drawings prepared by Hilti, Inc, titled "Hilti Kwik Bolt II Mechanical Expansion Anchor for Concrete and Masonry Elements", Drawing No: 543-003-A, dated 11/12/98, sheet 1 of 1, with no revisions, signed and sealed by T. E. Lunn, PE.

B TEST:

1. Test Report on Corrosion testing of fasteners prepared by Center for Applied Engineering, Inc., Job Number 257322-PS, dated 07/10/95 and signed by D. M. Moyer.
2. Test Report on Static Tension and Shear prepared by Southwest Inspection & Testing, Test report NO. QA8001B, dated 06/19/98, signed and sealed by R. L. Hess, PE.

C CALCULATIONS:

N/A

D MATERIAL CERTIFICATIONS:

N/A

E STATEMENTS:

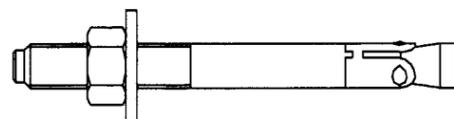
1. Letter of No financial Interest, prepared by Hilti, Inc., issued on 08/13/97, signed by T. Lippert and notarized on 08/15/97.
2. Letter of No change issued by Hilti, Inc., on 11/15/2001 and signed by T. Haanen.



Candido Font, PE, Sr. Product Control Examiner
Product Control Division

DESCRIPTION :

HILTI Kwik Bolt II 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.



MATERIAL CHARACTERISTICS:

Carbon steel studs conform to ASTM A510 with chemical composition of AISI 1038. Wedges are manufactured from AISI 1010 carbon steel. 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 SAE 1005-1033 and meeting dimensional requirements of ANSI 18.22.1 Type A plain.

DESIGN VALUES :

Dia. (in.)	Min. Embed. (in.)	3000 psi		CMU Grouted	
		Tension	Shear	Tension	Shear
1/4	2	587	544	-	-
3/8	2-1/2	1154	1311	753	1288
1/2	3-1/2	2041	1962	1117	2268
5/8	4	2925	3826	1629	2850
3/4	4-3/4	3687	5782	-	-
1	6	5460	10379	-	-

GENERAL NOTES :

- 1) Design values in pounds are equal to ultimate load divided by 4.
- 2) Edge distance shall be 1.5 times the minimum embedment and center to center distance shall be 2.0 times the minimum embedment.
- 3) Anchor installation shall be made in accordance with Hilti's published installation instructions in the Product Technical Guide.

ENGINEERING
 T.E. LUNN, PE
 P.O. Box 13121
 760 US HIGHWAY 1, SUITE 301
 NORTH PALM BEACH, FL 33408
 OFC: (561) 625-6465
 FAX: (561) 625-4883
 EMAIL: telunn@gte.net
 FLORIDA REG.# 26119

[Handwritten Signature]
 12-15-98

HILTI, INC.
 PO BOX 21148
 TULSA, OK 74121

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

REVISION DATE:
 DATE: 11-12-98
 DRAWING 543-003-A
 SCALE: 1" = 1"
 SHEET NO. 1 OF 1

FOR OFFICE USE

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE DEC 13 2001
 BY [Signature]
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-1001.03

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE JANUARY 20 1999
 BY [Signature]
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 98-0901-13