MIAMI-DADE

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

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 SECTION
(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 Product Approval of:
Powder Driven Fastener
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 approval shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at anytime 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 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.: 00-0411.06

Expires: 06/08/2003

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 Dade County, Florida under the conditions set forth above.

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

Approved: 06/08/2000

Internet mail address: postmaster@buildingcodeonline.com **Homepage: http://www.buildingcodeonline.com**

Hilti, Inc.

ACCEPTANCE NO: 00-0411.06

APPROVED : JUN 0 8 2000

EXPIRES : JUN 0 8 2003

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 96-1206.06 which was issued on 03/25/99. It approves a power driven fastener 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 X-ZF 72 P8S36** fastener shall be fabricated and used in strict compliance with the following documents: Drawing No 003-001-A, titled "Hilti X-ZF 72 P8S36 Power Actuated Fastener", prepared by Hilti, Inc. dated 02/12/99 sheet 1 of 1. The drawings bear 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.

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.: 00-0411.06

APPROVED : JUN 0 8 2000

EXPIRES : JUN 0 8 2003

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.

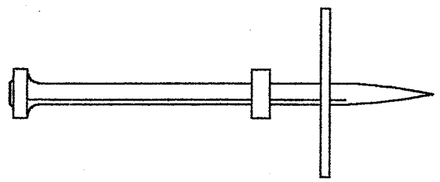
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

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

DESCRIPTION:
THE HILTI X-ZF 72 P8S36 FASTENER IS A 0.145" DIAMETER BY 2-7/8" LONG PIN THAT IS ASSEMBLED WITH A PRE-MOUNTED 0.059" THICK X 0.780 " SQUARE STEEL WASHER WITH TRUNCATED CORNERS. AN 8-MM PLASTIC WASHER IS MOUNTED ON THE PIN TO PROVIDE ALIGNMENT AND GUIDANCE IN THE POWDER ACTUATED TOOL.



(ACTUAL SIZE)

MATERIAL CHARACTERISTICS:
THE X-ZF PIN IS MANUFACTURED FROM AUSTEMPERED STEEL CONFORMING TO AISI 1060. THE S36 WASHER IS MANUFACTURED FROM STEEL CONFORMING TO AISI 1008. ALL STEEL PARTS ARE ZINC PLATED TO A THICHNESS 5-μm IN ACCORDANCE WITH ASTM B633, SC 1, TYPE III.

DESIGN VALUES:

DIAMETER (inch)	MIN. EMBEDMENT (inch)	MIN. EDGE DISTANCE (inch)	3000 PSI CONCRETE TENSION (lb.)	SHEAR (lb.)
0.145	1-4/16	1-3/4	138	146

GENERAL NOTES:
1) DESIGN VALUES ARE EQUAL TO THE ULTIMATE LOAD DIVIDED BY 8.
2) PIN INSTALLATION SHALL BE MADE IN ACCORDANCE WITH HILTI'S PUBLISHED INSTRUCTIONS IN THEIR PRODUCT TECHNICAL GUIDE.

PRODUCT RENEWED
ACCEPTANCE No. 00-0411.06
EXPIRATION DATE June 08, 2003
By
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

T.E. LUNN, PE
ENGINEERING
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760 US HIGHWAY 1, SUITE 301
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FLORIDA REG.# 26119

2-17-99

HILTI, INC.
PO BOX 21148
TULSA, OK 74121

HILTI X-ZF
72 P8S36
POWDER
ACTUATED
FASTENER

REVISION DATE:
DATE: 02-12-99
DRAWING 003-001-A
SCALE: 1" = 1"
SHEET NO. 1 OF 1

FOR OFFICE USE
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE March 25 1999
BY
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 96-1206.06