**MIAMI-DADE** COUNTY
**PRODUCT CONTROL SECTION**
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/building

**DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)**
**BOARD AND CODE ADMINISTRATION DIVISION**

# NOTICE OF ACCEPTANCE (NOA)

**Hilti, Inc.**
**7250 Dallas Parkway, Suite 1000**
**Plano, TX 75024**

**SCOPE:** This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section 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: Hilti Kwik-Con+ Concrete and Masonry Screw Anchor**

**APPROVAL DOCUMENT:** Drawing No. **1327-001**, titled "Hilti Kwik-Con + Fastening System for Concrete and Masonry Elements", sheet 1 of 1, dated 10/31/19, prepared by manufacturer, signed and sealed by Thomas A. Kolden, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: None**

**LABELING:** Each box/container of the smallest quantity 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 **revises NOA No. 19-1113.04** and consists of this page 1 and evidence page E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**

MIAMI-DADE COUNTY APPROVED

**8/11/21**

**Hilti, Inc.**

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS**

**1.** Drawing No. **1327-001**, titled "Hilti Kwik-Con + Fastening System for Concrete and Masonry Elements", sheet 1 of 1, dated 10/31/19, prepared by manufacturer, signed and sealed by Thomas A. Kolden, P.E.
***(Submitted under NOA No. 19-1113.04)***

**B. TESTS**

**1.** Test report on Tension and Shear Strength of Anchors in Concrete Elements per ASTM E488/488M-18, prepared by Specialized Testing, Inc., Test Report No. **STQA50738.1R0**, dated 11/07/2019, signed and sealed by Thomas A. Kolden, P.E.
***(Submitted under NOA No. 19-1113.04)***

**2.** Test reports on Corrosion Resistance (Salt Spray) per ASTM G 85-11, Annex 5, 140 cycles (280 hours) as detailed in TAS 114, Appendix E of 3/16" x 2 1/4" and 1/4" x 2 3/4" Kwik-Con+ Torx Hex Head Anchors, both prepared by Hurricane Engineering & Testing, Inc, Test Reports No. **HETI-19-S341** and **HETI-19-S342** respectively, both dated 10/08/19 and signed and sealed by Rafael E. Droz-Seda, P.E.
***(Submitted under NOA No. 19-1113.04)***

**C. CALCULATIONS**

**1.** None.

**D. QUALITY ASSURANCE**

**1.** Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

**1.** None.

**F. STATEMENTS**

**1.** Statement letter of code conformance to the **FBC 6th Edition (2017)** and of no financial interest issued by Specialized Testing, Inc., dated 11/26/19, signed and sealed by Thomas A. Kolden, P.E.
***(Submitted under NOA No. 19-1113.04)***

**2.** Distributor agreement dated 11/27/19.
***(Submitted under NOA No. 19-1113.04)***

**G. OTHERS**

**1.** None.

**Manuel Pérez, P.E.**
**Product Control Examiner**
**NOA No. 21-0628.20**
**Expiration Date: December 12, 2024**
**Approval Date: August 19, 2021**

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

**1.** None.

**B. TESTS**

**1.** None.

**C. CALCULATIONS**

**1.** None.

**D. QUALITY ASSURANCE**

**1.** Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

**1.** None.

**F. STATEMENTS**

**1.** Statement letter of conformance, complying with **FBC 7th Edition (2020)** and of no financial interest, dated June 17, 2021, issued by Specialized Testing, Inc., signed and sealed by Thomas A. Kolden, P.E.

**G. OTHERS**

**1.** Notice of Acceptance No. **19-1113.04**, issued to Hilti, Inc. for their Hilti Kwik-Con+ Concrete and Masonry Screw Anchor, approved on 12/12/19 and expiring on 12/12/24.

**Manuel Perez, P.E.**
**Product Control Examiner**
**NOA No. 21-0628.20**
**Expiration Date: December 12, 2024**
**Approval Date: August 19, 2021**

# HILTI KWIK-CON +

**PRODUCT REVISED**
**as complying with the Florida Building Code**
**NOA–No. 21-0628.20**
**Expiration Date: 12/12/2024**
**By:** Manuel Perez
**Miami–Dade Product Control**


Hilti, Inc.
7250 Dallas Parkway
Plano TX 75024


Hilti Kwik-Con+ Fastening system for concrete and masonry elements
**Revision date: October 31, 2019**
**Drawing: 1327-001**
**Sheet no. 1 of 1**

For office use

**PRODUCT APPROVED**
**as complying with the Florida Building Code**
**NOA–No. 19–1113.04**
**Approval Date 12/12/2019**
**By**
**Miami–Dade Product Control**

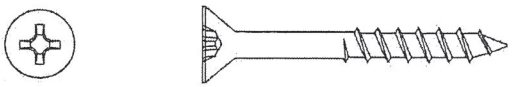
## DESCRIPTION

Carbon steel screw anchors have a minimum yield strength of 120 ksi and a minimum tensile strength of 150 ksi. The screw anchors have a zinc coating with a minimum thickness of 8 µm and are coated with an organic coating to resist corrosion. Three-sixteenths and 1/4-in. carbon steel screw anchors are available in 1-1/4, 1-3/4, 2-1/4, 2-3/4, 3-1/4 3-3/4 and 4 inch lengths.

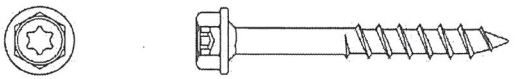
## DESIGN LOADS:

| Carbon steel screws | | | | | |
|---|---|---|---|---|---|
| Anchor size | Embedment depth | Concrete 300 psi | | C90 Concrete block | |
| | | Tension | Shear | Tension | Shear |
| 3/16" | 1" | 112 | 215 | 116 | 150 |
| 3/16" | 1-3/4" | 217 | 215 | - | - |
| 1/4" | 1" | 198 | 379 | 122 | 251 |
| 1/4" | 1-3/4" | 393 | 379 | - | - |

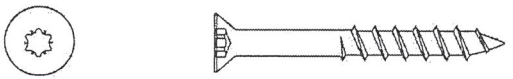
**Kwik-Con+ — Philips flat head**



**Kwik-Con+ — Torx hex washer head**



**Kwik-Con+ — Torx flat head**

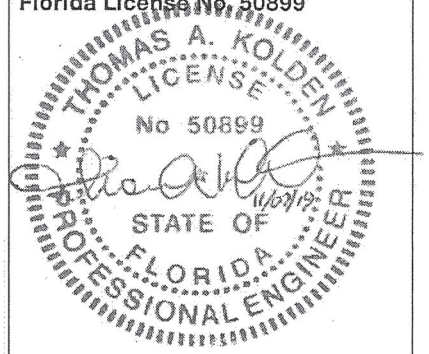


| Nominal diameter | Shank diameter (in.) | Thread major (in.) | Diameter root (in.) |
|---|---|---|---|
| 3/16" | 0.170 | 0.217 | 0.145 |
| 1/4" | 0.224 | 0.283 | 0.190 |

## GENERAL NOTES

1. Design loads for concrete are based on ultimate loads divided by 4. Design loads are for light-weight or normal-weight ASTM C90 block and are based on ultimate loads divided by 5.
2. In order to achieve the design load, a minimum edge distance of 1-1/2" for 3/16" ø screw, and 2-1/2" for 1/4" ø screw shall be observed.
3. Minimum spacing of anchor shall be 2" in concrete and 3" in concrete blocks in order to acheive the design loads.
4. Anchor installation shall be made in accordance with Hilti's published installation instructions in the Product Technical Guide.
5. Anchors are restricted from use in cracked concrete as defined in ACI 355.2.

Thomas Allan Kolden
**Professional Engineer**
**Florida License No. 50899**




DBS • 11/19