



November 1, 2021

RE: Hilti KB1 to replace Hilti KB-TZ carbon steel

To Whom It May Concern:

For over 10 years, Hilti has been providing the Kwik Bolt TZ (KB-TZ) carbon and stainless-steel anchors in cracked and uncracked concrete for the most demanding anchoring applications in the construction industry.

In 2021, we are happy to announce Hilti is introducing the Kwik Bolt 1 (KB1) as a replacement to the KB-TZ carbon steel anchors. Similar to the KB-TZ, the KB1 anchor is a torque-controlled, mechanical expansion anchor consisting of a stud, wedge, washer and nut.

The KB1 can be used in the following base materials:

- Cracked and uncracked normal-weight concrete to lightweight concrete (specified compressive strength, f'_c , of 2,500 psi to 8,500 psi)
- Lightweight concrete over metal deck (3,000 psi minimum specified compressive strength)
- Uncracked, fully grouted concrete masonry unit (CMU) construction

As with the KB-TZ, Hilti has thoroughly tested the KB1 in accordance with the following:

- ICC-ES Acceptance Criteria for Mechanical Anchors in Concrete Elements (AC193) which incorporates requirements in ACI 355.2-11
- ICC-ES Acceptance Criteria for Expansion Anchors in Masonry Elements (AC01)
- FM 1951 and UL 203 for use with fire sprinkler pipes

Based on this testing, IAPMO recently released the Evaluation Report ER-678 (Concrete) and Evaluation Report ER-677 (Masonry). The KB1 is a premium performance anchor and in most cases has better performance than industry competitors. The KB1 is equal to or better than the KB-TZ carbon steel anchors with limited exceptions.

The full IAPMO Evaluation Reports for KB1 are available for download at www.hilti.com or www.iapmo.org. It is highly recommended to use [PROFIS Engineering](#) to redesign your existing projects with the new KB1.

Please feel free to contact our Engineering Technical Services department for more information or any questions.

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