

November 1, 2021

RE: Hilti KB1 to replace Hilti KB3 carbon steel

To Whom It May Concern:

For over 10 years, Hilti has been providing the Kwik Bolt 3 (KB3) carbon and stainless-steel anchors in 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 KB3 carbon steel. Similar to the KB3, the KB1 anchor is a torque-controlled, mechanical expansion anchor consisting of a stud, wedge, washer and nut. Unlike the KB3, which is only approved in uncracked concrete, the KB1 is also approved for use in cracked concrete and seismic conditions.

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

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 355.2-07
- 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 KB3 carbon steel anchors with limited exceptions.

The full IAPMO Evaluation Reports for KB1 are available for download at www.hilti.com or www.hilti.com</

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

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