3.3.13.4 Installation Instructions

Determining the Correct KWIK-CON II+ Fastener & Hole Depth

The Hilti KWIK-CON II+ masonry fastening system consists of the KWIK-CON II+ fastener, the KWIK-CON II+ drive tool, and a TKC or TKB matched tolerance carbide-tipped drill bit. Consistent performance and maximum pullout strength can be assured only when all three elements of the system are properly used.

Fastener Length

The length of the KWIK-CON II+ fastener to be used is determined by combining the thickness of the fixture being attached (A) with the desired depth of embedment in the masonry material (B). It is recommended that a minimum of 1" and a maximum of 1-3/4" embedment be used in determining fastener length.

KWIK-CON II+ fasteners are available in 1/4" and 3/16" diameters. The diameter of the fastener and the depth of embedment affect pullout strengths. Application strength requirements and safety factors should be considered when determining the depth of embedment and fastener diameter. For assistance, contact your local Hilti Sales Representative.

Hole Depth

A TKC matched tolerance carbide tipped drill bit is supplied with each box of KWIK-CON II+ fasteners. The correct hole depth (B+C) can normally be obtained by drilling the full length of this bit. In all cases, the hole must be at least 1/2" deeper than the depth of the fastener embedment.

Hole Diameter

The diameter of the drilled hole is also important to the performance of the KWIK-CON II+ masonry fastening system. Using Hilti TKC (concrete) or TKB (block) matched tolerance carbide-tipped bits will help assure consistent fastener performance and maximum pullout strength.

Head Styles

TORX Hex Washer Head
Uses either TORX or hex drives
Washer head provides a bearing surface for fast, secure fastening.

TORX or Phillips Flat Head
Used when a countersunk appearance is desirable

A = Fixture being attached
B = KWIK-CON II+ embedment minimum of 1", maximum of 1-3/4" is recommended
A + B = Length KWIK-CON II+ to be used
B + C = Depth of hole drilled must be at least 1/2" deeper than KWIK-CON II+ embedment

Torx Hex Washer Head Internal Torx
Torx or Phillips Flat Head