

## HILTI TECHNICAL BULLETIN

**October 20, 2015**

**Subject: Hilti HDI auto setting tools must only be used with the appropriate Hilti anchors**

Hilti HDI+, HDI-L+ and HDI-P Drop-in anchors are developed to work in concert with the respective Hilti Setting tool and Stop drill bit combo.

- Only the HDI+ and HDI-L+ expansion plugs are specifically designed to work with the HDI+ Setting tool and a rotary-hammer drill.
- Only the HDI-P expansion plug is specifically designed to work with the HDI-P Setting tool and a rotary-hammer drill.

It is not advised to use the Hilti HDI(-L)+ Setting tool and Stop drill bit combo with drop-in anchors other than the HDI+ or HDI-L+. It is also not advised to use the Hilti HDI-P Setting tool and Stop drill bit combo with short drop-in anchors other than the HDI-P. The reason is that the geometry of the expansion plugs for other drop-in anchors have not necessarily been optimized to allow the HDI+ and HDI-P Setting tools to transfer the required impact energy from a hammer drill into the anchor.

Hilti has performed sample tension tests in normal weight concrete with the HDI(-L)+ Setting tool and Stop drill bit combos with non-HDI+ and non-HDI-L+ drop in anchors, and control tension tests in the same concrete using the Manufacturer's Printed Installation Instructions (MPII) and proper setting tools.

It has been observed that the ultimate tension loads can be reduced, in some cases up to 64%, when non-approved anchors are installed with the HDI(-L)+ or HDI-P Setting tool and Stop drill bit combos.

Therefore, the use of other drop-in anchors with the HDI(-L)+ and HDI-P Setting tool and Stop drill combos bit would not be in compliance with the published MPII for the specific anchor and there is the possibility that the published load capacity would not be achieved.

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

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