Reference HST4 substitution letter
Department Business unit Anchors
Date December 1st, 2025

Introducing Hilti's Next-Generation Expansion Anchors – HST4 and HST4-R

To Whom It May Concern:

Hilti is proud to introduce the Hilti HST4 (Carbon Steel, Zinc plated) and HST4-R (Stainless steel) expansion anchors, the next-generation replacements for the trusted HST3 and HST3-R. This launch underscores Hilti's ongoing commitment to innovation, performance, and safety in construction fastening systems.

Why Upgrade to HST4?

The HST4 offers several key improvements:

- **Enhanced performance** for demanding applications
- **Greater design flexibility** with a wider range of embedment depths
- **Expanded approvals** for static, seismic (C1 & C2), and fire-exposed conditions

Using Hilti HST4 and HST4-R on your jobsite means working **faster, simpler, safer, and more sustainably**, thanks to:

- **ETA-approved system with non-cleaning** installation requirement
- **Simple setting** with Hilti's Adaptive Torque (AT) module
- **Optimized and reduced steel cost** when the system is value engineered using the enhanced performance

What If Your Drawings Still Specify HST3?

Although Hilti HST3 and Hilti HST3-R are being phased out, they may still be referenced in your project drawings.

A like-for-like swap is possible in most cases (same diameter and length). However, please note the following exceptions, when recalculation may be needed:

- Applications designed for **uncracked concrete** with **static tension** loads close to an edge of a slab (splitting failure), which includes, but is not limited to façade and handrails applications.
- Applications with **static loads** using the Hilti filling set with sizes M8 to M12, where **shear steel failure is the decisive failure mode.**
- Installations using **diamond coring where seismic C2 performance is required.** This is only approved for HST4-R Stainless steel variant.
- Applications using HST3 **M10 where pry-out is the decisive failure mode in shear**, commonly found in **shallow embedment conditions.** Possible remediation may include increasing embedment depth.
- HST3 (-R) with **Filling Set Washers** (M8-M16) due to steel capacity in shear.

Whenever practical, we strongly recommend using Hilti's **Profis Engineering** software to validate your design when transitioning to Hilti HST4, where you may be able to find improvements in terms of required anchors sizes and lengths for your applications. Our Engineering Team is here to support you and ensure a smooth transition. Should recalculation be needed, contact the Hilti Engineering team on NZEngineers@hilti.com for further information and support.

Resources

Explore these anchors at hilti.co.nz:

HST4 Wedge anchor - Mechanical Anchors - Hilti New Zealand

HST4-R Stainless steel wedge anchor - Mechanical Anchors - Hilti New Zealand

PROFIS Engineering Suite structural design software - Fastening design software - Hilti New Zealand

HST4: Beyond The Standard Post-Installed Anchor - Engineering ...

Contact us:

Reach out to your dedicated Account Manager directly or contact a Field Engineer for support at NZEngineers@hilti.com.

Yours truly,

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