



Confirmation of performance equivalence for mutual replacement between HILTI AM and HILTI HAS anchor rods

To whom it may concern,

In autumn 2023 Hilti has launched the new HAS anchor rods portfolio in metric sizes, available also in sizes of 1000 and 3000mm length, to be used together with any Hilti HIT injection mortars system. HAS metric anchor rods have been tested according to European Assessment Document: EAD 330499 to take ETA approval and fully complies with ISO 898-1 standard for carbon steel rods and ISO 3506-1 for stainless steel ones.

HAS metric portfolio in meter-long versions is intended to replace all versions of the pre-existing Hilti AM meter-long portfolio and for this reason a full equivalence in performance and cross-substitution is possible between the two anchor rods lines.

HAS metric portfolio has the same steel strength and performance level of AM portfolio for post-installed anchor applications in both masonry and concrete, as long as the two anchor rods are used at same embedment depth and the same anchor plate width remains. AM's and HAS's corrosion resistances are the same when the comparison is made between anchor rods with same corrosion protection.

The whole HAS metric portfolio is being directly listed in ETA documents of all major Hilti HIT products, making this new portfolio fully compatible with Hilti injection systems without the need to request and store traceability documentation ("3.1 certificates").

In order to keep consistency and clarity for all customers, HAS nomenclature follow the same approach as for AM, as described below:

Naming composition: *[Product Name] [Steel grade/type] [Diameter]x[Length]*

Examples	Old AM portfolio	New HAS portfolio
1: 5.8 electrogalvanized rod, diameter M16, length 1000mm	AM M16x1000	HAS 5.8 M16x1000
2: 8.8 hot-dip galvanized rod, diameter M20, length 1000mm	AM 8.8 HDG M20x1000	HAS 8.8 HDG M20x1000
3: Stainless steel rod, diameter M16, length 3000mm	AM A4 M16x3000	HAS A4 M16x3000

When replacing AM rods with HAS metric or viceversa, the installation procedure does not need to be changed. Installation parameters are equivalent, as shown in Hilti HIT injection systems' ETA documents.

In case of questions, please do not hesitate to contact one of our technical experts or sales representatives.