

Hilti (New Zealand) Ltd - Marketing
T 0800 444 584
E shaun.vanrooyen@hilti.com
D July 3, 2021

Confirmation of performance equivalence to replace HSL-3 with HSL4 for static, seismic, fire design

To whom it may concern,

Hilti has launched HSL4 (-G,-B,-SK) mechanical anchor to replace the HSL-3 (-G,-B,-SK) carbon steel version to better serve customer needs. The HSL4 anchor was tested according to European Assessment Document: EAD 330232-00-0601 and test results were assessed with ETA-19/0556.

HSL4 anchor is an improved version of HSL-3 and provides extra features to customers in the following terms:

- Reduced anchor spacing and edge distance for cracked concrete
- Higher k factor value for pry-out resistance under shear loads
- Higher seismic shear load resistance
- C2 seismic approval for M24 diameter
- Higher load values under fire exposure
- Hollow drill bit drilling option
- Variable base plate thickness option
- Reduced torque moment requirement
- Tracefast code for product & installation documentation
- Torque limitation nut and collapsible ring for higher installation reliability

HSL4 shows at least the same static, seismic and fire performance than HSL-3 for post-installed anchor applications in concrete, if the design parameters such as concrete strength, base material thickness, anchor layout plan, edge distance, embedment depth, anchor plate thickness etc. remain the same.

HSL4's embedment depth must comply with all design specification parameters.

Hilti does not accept any liability for improperly installed anchors. Please be informed that installation procedure in ETA-19/0556 must be strictly followed.

Profis Engineering will be updated with HSL4 and you will be able to perform the necessary calculations according to EN 1992-4 and explore all the potential applications for the new anchor.

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

Yours sincerely,

Shaun van Rooyen
Product Manager – Anchors

Hilti (New Zealand) Ltd

Level 1, Tower B, 600 Great South Rd | Ellerslie

Auckland | 1051