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Type Approval Certificate Extension

This is to certify that Certificate No. 03/ 00070(E3) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Hilti Corporation
PLACES OF PRODUCTION	Feldkircherstrasse 100 9494 Schaan Liechtenstein
DESCRIPTION	Hilti X-BT direct mechanical fastening system, comprising Hilti fastening tool, drill bit and power loads.
TYPES	X-BT stainless steel threaded studs: Threaded stud connections: X-BT M6-24-6 SN 12-R; X-BT W6-24-6 SN 12-R; X-BT M8-15-6-R; X-BT M 10-24-6-R; X-BT W10-24-6-R; X-BT M8-15-6 SN 12-R; X-BT M 10 24-6 SN 12-R; X-BT W10-24-6 SN 12-R; X-BT-ER X-BT-MR-N M8 Composite fasteners: X-FCM-R, X-FCS-R

Certificate No.	03/ 00070(E4)
Issue Date	25 January 2019
Expiry Date	24 January 2024
Sheet	1 of 2



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- APPLICATION** For use in fastening to steel in marine, offshore and industrial environments. Including structural steel Grades S690 and S960 in compliance with Eurocode 3 Part 1-9 (EN 1993-1-9)
- SPECIFIED STANDARDS** Hilti X-BT Threaded Fastener Specification;
Hilti Direct Fastening technology manual, Product Information.
- OTHER CONDITIONS**
1. This Type Approval certificate is to be read in conjunction with LR Technical Report no. 2003/ CSG/ TI/ 6331.
 2. The minimum strength of the base material must be as stated in the Hilti X-BT Threaded Fastener Specification.
 3. The end user must ensure that the base and fastened materials possess adequate corrosion resistance for the environments in which they are to be used.
 4. For use on LR Classed ships, the locations and systems for which they are to be used are to be subject to a ship specific agreement.
 5. Fatigue classification in accordance with EN 1993-1-9:2005 – Eurocode 3: Design of steel structures, is equivalent to category 90 m=3, and category 100 m=5,

“This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate.”

The attached Design Appraisal Document No. 03/00070(E4) and its supplementary Type Approval Terms and Conditions form part of this Certificate

All other details remain as the previous Certificate No. 03/00070(E3) to which this extension should be attached.

Certificate No. 03/ 00070(E4)
Issue Date 25 January 2019
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Sheet 2 of 2



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