

## **Type Approval Certificate Extension**

This is to certify that Certificate No. 97/00077(E1) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

**PRODUCER** 

Hilti Corporation

PLACE OF

FL-9494 Schaan

PRODUCTION

Principality of Liechtenstein

**DESCRIPTION** 

Hilti DX Direct Mechanical Fastening System, comprising Hilti X-E

fastenings produced using the Hilti DX process

**TYPE** 

X-E Zinc coated threaded studs and nails identified with an 'H'

marking (standard fastening element).

General Purpose nails:

X-U, EDS, and DS

Nails for fastening thin sheeting:

X-ENP-19 and

X-ENP2K

Nails for fastening diaphragm decking:

X-EDN and X-EDNK

Threaded stud connections:

X-EM, X-EW, and X-EF

Composite fasteners:

X-HS, X-CC, X-FCM

and X-FCP

**APPLICATION** 

For use in fastening carbon steel components to carbon steel base

components in marine, offshore and industrial environments in

accordance with Hilti Product Information.

**DESIGN CODE** 

Hilti Direct Fastening Technology Manual, Product Information.

Certificate No.

97/00077(E2)

**Issue Date** 

2 November 2009

**Expiry Date** 

8 June 2013

Sheet

1 of 2

P. F. Moysey London Design Support Services Lloyd's Register EMEA

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CONDITIONS OF APPROVAL

This Type Approval certificate should be read in conjunction with

LR Technical Report no. 2003/CSG/TI/6331

Unless otherwise stated in the Hilti Direct Fastening Technology Manual, the fastened and base materials are to be carbon steel with a

tensile strength greater than 370 N/mm<sup>2</sup>

The end user must ensure that the base and fastened materials posses adequate corrosion resistance for the environments in which they are

to be used.

"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. 97/00077(E2) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 97/00077(E1) to which this extension should be attached.

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2 of 2

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