



EN

## DECLARATION OF PERFORMANCE

according to the construction products (Amendment etc.) (EU Exit) Regulation 2020

Hilti powder-actuated fastener X-ENP-19 L15 (MX, MXR)  
No. Hilti-DX-DoP-401

**1. Unique identification code of the product-type:** Hilti powder-actuated fasteners X-ENP-19 L15, X-ENP-19 L15 MX, X-ENP-19 L15 MXR in combination with Hilti powder-actuated fastening tools DX 76, DX 76 MX, DX 76 PTR, DX 860-ENP, DX 9-ENP

**2. Type, batch or serial number or any other element allowing identification of the construction product):** Type and lot number are displayed on the packaging

**3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:**

Intended use	Fastening of steel sheeting or other thin gauge steel members to steel members
Steel Sheeting	≥ S280 acc. to BS-EN 10346 Single layer thickness: 0.63 to 2.5 mm, Maximum multiple layer thickness: 4 mm
Base material	Structural steel S235, S275, S355 acc. to BS-EN 10025-2 Minimum thickness: 6 mm, Maximum thickness: no upper limit
Environmental condition	Connections must not be exposed to external weather or moist atmospheres
Loading	Predominantly static (e.g. wind loading)

**4.1 Name, registered trade name or registered trade mark and contact address of the manufacturer:**

Hilti Aktiengesellschaft, Business Unit Direct Fastening, 9494 Schaan, Fürstentum Liechtenstein

**4.2 Name of the UK importer:**

Hilti (Gt. Britain) Limited, No. 1 Circle Square, 3 Symphony Park, Manchester, England, M1 7FS

**5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks:**

n.a.

**6. System or systems of assessment and verification of constancy of performance of the construction product:**

System 2+

**7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:**

n.a.

**8. In case of the declaration of performance concerning a construction product for which a UK Technical Assessment has been issued:**

BBA, British Board of Agreements issued UKTA-0836-22/6557 on the basis of UKAD 330153-00-0602. The notified body BBA performed third party tasks under system 2+ and issued the certificate of conformity of the factory production control UK 0836-CPR-23/F6995.



## 9. Declared performance:

Essential characteristics	Performance
Tension resistance of connection	See Table 1
Shear resistance of connection	See Table 1
Design resistance in case of combined tension and shear forces (interaction)	Linear interaction formula according to BS-EN 1993-1-3:2006 + AC:2009, section 8.3 (8)
Check of deformation capacity in case of constraining forces due to temperature	For the type of connection (a, b, c, d) listed in Table 1 it is not necessary to take the effect of constraints due to temperature into account (applicable for steel grades S280 and S320 in accordance with BS-EN 10346:2015)
Determination and check of application limits	Base material Structural steel S235, S275, S355 according to BS-EN 10025-2 Minimum thickness: 6 mm Maximum thickness: no upper limit
Reaction to fire	Class A1
Resistance to fire	The part of the structure in which the powder-actuated fasteners X-ENP-19 L15 are intended to be installed shall be tested, using the test method relevant for the corresponding fire resistance class, in order to be classified according to the appropriate part of BS-EN 13501.
Durability	The intended use only comprises fasteners and connections which are not directly exposed to external weather conditions or moist atmospheres.

**Table 1**

Characteristic shear and tension resistance $V_{Rk}$ and $N_{Rk}$ of connection				
Sheeting thickness $t_i$ [mm]	Shear $V_{Rk}$ [kN]	Tension $N_{Rk}$ [kN]	Types of connection	Consideration of effect of repeated wind loading
0.63 <sup>X)</sup>	4.0	4.1	a,b,c,d	$\alpha_{cycl} = 1.0$  with $N_{Rd} = \alpha_{cycl} \cdot N_{Rk} / \gamma_M$
0.75	4.7	6.3	a,b,c,d	
0.88	5.4	7.2	a,b,c,d	
1.00	6.0	8.0	a,b,c,d	
1.13	7.0	8.4	a,c	
1.25	8.0	8.8	a,c	
1.50	8.6	8.8	a	
1.75	8.6	8.8	a	
2.00	8.6	8.8	a	
2.50	8.6	8.8	a	

X) for DX76, DX76MX, DX 860-ENP and DX 9-ENP

**10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.**

Signed for and on behalf of the manufacturer by:



**Klaus Bertsch**  
Head of Quality Direct Fastening  
Hilti Aktiengesellschaft, Schaan: 01.09.2023