



EN

## DECLARATION OF PERFORMANCE

according to Annex III of the Regulation (EU) Nr. 305/2011 (Construction Products Regulation)

Hilti power-actuated fastener X-P 17 B3, X-P 20 B3, X-P 17 B4 and X-P 20 B4  
No. Hilti-DX-DoP-009

- 1. Unique identification code of the product-type:** Hilti power-actuated fastener X-P 17 B3 and X-P 20 B3 in combination with Hilti fastening tool BX 3 and X-P 17 B4 and X-P 20 B4 in combination with Hilti fastening tool BX 4.
- 2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):** 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	Power-actuated fastener for multiple use in concrete for non-structural applications
Base material	Reinforced or unreinforced normal weight concrete according to EN 206-1:2000. Strength classes C20/25 to C45/55 according to EN 206-1:2000. Cracked and non-cracked concrete.
Environmental condition	Structures subject to dry indoor conditions.
Loading	Static and quasi-static loads.

- 4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):** Hilti Aktiengesellschaft, Business Unit Direct Fastening, 9494 Schaan, Fürstentum Liechtenstein
- 5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):** n.a.
- 6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:** 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 European Technical Assessment has been issued:** DIBt, Deutsches Institut für Bautechnik issued ETA-20/0886 on the basis of EAD 330083-04-0601, March 2021. The notified body MPA-Stuttgart 0672 performed third party tasks under system 2+.

**9. Declared performance:**

Essential characteristics	Performance
Characteristic values of resistance in non-cracked and cracked concrete	Annex C1 of ETA-20/0886 (details see below)
Durability	Structures subject to dry conditions.
Reaction to fire	Class A1
Resistance to fire	n.a.

**The following summary provides the performance from the referenced annexes of ETA-20/0886:**



**Performances in cracked and non-cracked concrete**

Power-actuated fastener		X-P 17 B3 MX	X-P 20 B3 MX
		X-P 17 B4 MX	X-P 20 B4 MX
Characteristic shear strength $V_{Rk}$	[kN]	0.8	
Partial safety factor $\gamma_M^{-1}$	[-]	1.5	
Partial safety factor $\gamma_F^{-1}$	[-]	1.4	
Minimum spacing $s_{min}$	[mm]	200	
Maximum spacing $s_{max}$	[mm]	600	
Minimum edge distance $c_{min}$	[mm]	150	
Min $t_{fix}$	[mm]	0.6	
Max $t_{fix}$	[mm]	1.0	

1) In absence of other national regulations

**Fire resistance in cracked and non-cracked concrete (incl. PE sealant)**

Power-actuated fastener		Fire duration	X-P 17 B4 MX	X-P 20 B4 MX
Characteristic shear strength $V_{Rk}$	[kN]	30 min.	0.13	
		60 min.	0.12	
		90 min.	0.1	
		120 min.	0.05	
Partial factor $\gamma_M^{-1}$	[-]	1,0		
Partial factor $\gamma_F^{-1}$	[-]	1,0		
Minimum spacing $s_{min,fi}$	[mm]	200		
Maximum spacing $s_{max}$	[mm]	600		
Minimum edge distance $c_{min,fi}$	[mm]	150		
Thickness of fixture	Min $t_{fix}$	[mm]	0,6	
	Max $t_{fix}$	[mm]	1,0	

**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:

**Rafael Garcia**  
BU Head

**Klaus Bertsch**  
Head of Quality Direct Fastening

Hilti Aktiengesellschaft, Schaan: 01.06.2024