

ΕN

DECLARATION OF PERFORMANCE

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

Hilti fixing element XI-FV No. Hilti-DX-DoP-006

1. Unique identification code of the product-type:

Hilti fixing element XI-FV

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	Powder-actuated fastener for the fixing of bonded thermal insulation composite systems according EAD 330965-00-0601 and ETAG 004. The fixing element may only be used for transmission of wind suction loads.
Base material	Reinforced or unreinforced normal weight concrete C12/15 – C35/45.
	The concrete can either be uncoated or coated according Annex 1 and Annex 2 of
	ETA-17/0304.
Environmental condition	Structures subject to dry conditions and structures subject to external atmospheric
	atmospheres.
	Temperature range: -20 °C to +60 °C
Available lengths	60 mm, 80 mm, 100 mm, 120 mm, 130mm, 140 mm, 150mm, 160 mm, 180 mm,
(insulation thickness)	200 mm

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-17/0304 on the basis of EAD 330965-00-0601. The notified body MPA-Stuttgart 0672 performed third party tasks under system 2+ and issued the certificate of conformity of the factory production control 0672-CPR-0719.



9. Declared performance:

Essential characteristics	Performance
Characteristic tension resistance in uncoated concrete – fastener pull-out	$N_{Rk,p} = 1.0 \text{ kN}$
Characteristic tension resistance in coated concrete – fastener pull-out Note: Applicable for concrete coated with cement plaster complying with general purpose plastering mortar (GP) of compressive strength category CS III or CS IV according EN 998-1. If the plaster specification is unknown or deviates from the above specification or if the concrete is coated with tiles, job-site tests according EOTA Technical Report TR 052 may be done to determine the characteristic pull-out resistance in coated concrete.	N _{Rk,p} = 0.9 kN
Partial safety factor for fastener pull-out Note: In the absence of national regulations	γ _M = 2.0
Characteristic tension resistance – plastic part	N _{Rk,Pl} = 1.1 kN
Partial safety factor for plastic part Note: In the absence of national regulations	γ _{M,PI} = 1.3
Minimum allowable spacing	s _{min} = 100 mm
Minimum allowable edge distance	c _{min} = 75 mm
Diameter of the anchor plate	d = 60 mm
Load resistance of the plate	$N_{Rk,plate} = 1.6 \text{ kN}$
Plate stiffness	c = 0.4 kN/mm
Displacement at tension load N = 0.33 kN	$\delta_{\rm N}$ = 0.8 mm
Point thermal transmittance for insulation thickness: 60 mm $\leq h_D < 140$ mm	χ = 0.002 W/K
Point thermal transmittance for insulation thickness: 140 mm $\leq h_D \leq 200$ mm	χ = 0.001 W/K

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:

M. Mini

Mario Grazioli Head of Quality Direct Fastening Hilti Aktiengesellschaft, Schaan: June 21, 2021