

EN

DECLARATION OF PERFORMANCE

DoP No. Hilti HIT-RE 500 0756-CPD-0045

1. Unique identification code of the product-type:

Injection System Hilti HIT-RE 500

2. Type, batch or serial number as required pursuant to Article 11(4):

See ETA-04/0027 (16.05.2013), annex 1.
Batch number: see packaging of the product.

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification:

generic type	bonded anchor, injection system
for use in	<u>concrete (C20/25 to C50/60)</u> : bore holes made with hammer drilling, Hilti hollow drilling or diamond coring non-cracked : M8 - M30, Ø 8 - Ø 32
option / category	Option 7
loading	static, quasi-static
material	<u>zinc coated steel:</u> For dry internal use only HIT-RE 500 + HIT-V (threaded rod) : M8, M10, M12, M16, M20, M24, M27, M30 HIT-RE 500 + HAS (threaded rod) : M8, M10, M12, M16, M20, M24, M27, M30 HIT-RE 500 + HIS-N (internal sleeve) : M8, M10, M12, M16, M20 <u>Stainless steel A4:</u> For internal and external use with no particular aggressive conditions HIT-RE 500 + HIT-V-R (threaded rod) : M8, M10, M12, M16, M20, M24, M27, M30 HIT-RE 500 + HAS-R (threaded rod) : M8, M10, M12, M16, M20, M24, M27, M30 HIT-RE 500 + HIS-RN (internal sleeve) : M8, M10, M12, M16, M20 HIT-RE 500 + HZA-R (tension anchor) : M12, M16, M20, M24 <u>High corrosion resistant steel:</u> For internal and external use with particular aggressive conditions HIT-RE 500 + HIT-V-HCR (threaded rod) : M8, M10, M12, M16, M20, M24, M27, M30 HIT-RE 500 + HAS-HCR (threaded rod) : M8, M10, M12, M16, M20, M24, M27, M30 <u>rebar class B or C:</u> See EN 1992-1-1 Annex C Table C.1 and C.2N HIT-RE 500 + rebar (may be used as anchor designed in accordance with EOTA TR 029 only) : Ø 8, Ø 10, Ø 12, Ø 14, Ø 16, Ø 20, Ø 25, Ø 26, Ø 28, Ø 30, Ø 32
temperature range (if applicable)	Range I : -40° to +40° (short term), +24°(long term) Range II : -40° to +58° (short term), +35°(long term) Range III : -40° to +70° (short term), +43°(long term)

4. Name, registered trade name or registered trade mark and contact address as required pursuant to Article 11(5):

Hilti Corporation, 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): -

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

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

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

Deutsches Institut für Bautechnik (DIBt) issued European Technical Approval ETA-04/0027 (16.05.2013) on the basis of ETAG 001 Part 1, 5, the notified body 0756-CPD performed third party tasks as set out in Annex V under System 1 and issued certificate of conformity 0756-CPD-0045.

9. Declared performance:

Essential characteristics	Design method	Performance	Harmonized Technical Specification
characteristic resistance for tension	EOTA TR 029	ETA-04/0027 <ul style="list-style-type: none"> • HIT-RE 500 + HIT-V-.. : annex 14 • HIT-RE 500 + HAS-.... : annex 14 • HIT-RE 500 + HIS-RN.. : annex 20 • HIT-RE 500 + HZA-R... : annex 23 • HIT-RE 500 + rebar : annex 17 	ETAG 001 Part 1, 5
characteristic resistance for shear	EOTA TR 029	ETA-04/0027 <ul style="list-style-type: none"> • HIT-RE 500 + HIT-V-.. : annex 15 • HIT-RE 500 + HAS-.... : annex 15 • HIT-RE 500 + HIS-RN.. : annex 21 • HIT-RE 500 + HZA-R... : annex 24 • HIT-RE 500 + rebar : annex 18 	
minimum spacing and minimum edge distance	EOTA TR 029	ETA-04/0027 <ul style="list-style-type: none"> • HIT-RE 500 + HIT-V-.. : annex 3 • HIT-RE 500 + HAS-.... : annex 3 • HIT-RE 500 + HIS-RN.. : annex 4 • HIT-RE 500 + HZA-R... : annex 6 • HIT-RE 500 + rebar : annex 5 	
displacement for serviceability limit state	EOTA TR 029	ETA-04/0027 <ul style="list-style-type: none"> • HIT-RE 500 + HIT-V-.. : annex 16 • HIT-RE 500 + HAS-.... : annex 16 • HIT-RE 500 + HIS-RN.. : annex 22 • HIT-RE 500 + HZA-R... : annex 25 • HIT-RE 500 + rebar : annex 19 	

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 6. 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:



Raimund Zaggl
Business Unit Head
Business Unit Anchors



Seppo Perämäki
Head of Quality
Business Unit Anchors

Hilti Corporation
Schaan, July 2013



EN

DECLARATION OF PERFORMANCE

DoP No. Hilti HIT-RE 500 rebar 0756-CPD-0217

1. Unique identification code of the product-type:

Injection System Hilti HIT-RE 500 for rebar connections

2. Type, batch or serial number as required pursuant to Article 11(4):

See ETA-08/0105 (09.05.2013), annex 1, 4, 6.
Batch number: see packaging of the product.

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification:

generic type	injection system, post-installed connections of reinforcing bars in existing structures by anchoring or overlap
for use in	<u>concrete (C12/15 to C50/60)</u> non-carbonated, maximum chloride 0.40%, bore holes made with hammer drilling, compressed air, hollow drilling or diamond coring (dry or wet)
option / category	-
loading	predominantly static (HZA tension anchor only for transmission of tensile forces in the direction the bar axis)
material	<u>rebar class B or C:</u> See EN 1992-1-1 Annex C Table C.1 and C.2N HIT-RE 500 + rebar: Ø 8, Ø 10, Ø 12, Ø 14, Ø 16, Ø 20, Ø 25, Ø 26, Ø 28, Ø 30, Ø 32, Ø 34, Ø 36, Ø 40 <u>Stainless steel A4 + rebar:</u> For internal and external use with no particular aggressive conditions HIT-RE 500 + HZA-R (tension anchor) : M12, M16, M20, M24
temperature range (if applicable)	-40° to +80° (short term), +50° (long term)

4. Name, registered trade name or registered trade mark and contact address as required pursuant to Article 11(5):

Hilti Corporation, Business Unit Anchors, 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): -

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

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

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

Deutsches Institut für Bautechnik (DIBt) issued European Technical Approval ETA-08/0105 (09.05.2013) on the basis of ETAG 001 Part 1, 5; EOTA TR 023, the notified body 0756-CPD performed third party tasks as set out in Annex V under System 1 and issued certificate of conformity 0756-CPD-0217.

9. Declared performance:

Essential characteristics	Design method	Performance	Harmonized Technical Specification
Minimum concrete cover	EN 1992-1-1 (Eurocode 2) ETA-08/0105 section 4.3 ETA-08/0105 annex 2, 5, 6, 7	ETA-08/0105, annex 8	ETAG 001 Part 1, 5; EOTA TR 023
Minimum anchorage lengths		ETA-08/0105, annex 8	
Ultimate bond resistance		ETA-08/0105, annex 9	

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 6. 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:



Raimund Zaggl
Business Unit Head
Business Unit Anchors



Seppo Perämäki
Head of Quality
Business Unit Anchors

Hilti Corporation
Schaan, July 2013

