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European Technical Assessment Body for construction products



European Technical Assessment

ETA-24/0949 of 9 May 2025

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:	Deutsches Institut für Bautechnik
Trade name of the construction product	Anchor Devices STA, QUAD, POINT, LOCK, SPAR
Product family to which the construction product belongs	Anchor Devices for Personal Fall Protection Systems Fastened to Concrete Structures
Manufacturer	INNOTECH Arbeitsschutz GmbH Laizing 10 4656 KIRCHHAM ÖSTERREICH
Manufacturing plant	INNOTECH Fertigungstechnik GmbH Laizing 10 4656 KIRCHHAM ÖSTERREICH
This European Technical Assessment contains	15 pages including 10 annexes which form an integral part of this assessment
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of	EAD 331072-00-0601-v01



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Specific part

1 Technical description of the product

The subject of this assessment are anchor points for protecting persons (operators) working at heights against a fall. The fall protection systems are made of stainless steel 1.4301 and 1.4307. They are fastened to reinforced concrete (cracked or uncracked), strength classes C20/25 to C50/60 according to EN 206. The fall protection systems are fastened to the concrete with the different fasteners which can be seen in the annexes

This ETA includes the products listed in the following Table 1:

Tabelle 1: Produkte der ETA

Annex	Trade name (Products of	Fastener	Supporting structure	
	this ETA)			
		Fischer FAZ II 10/10 R ¹		
2		HILTI HST3-R M10 ³	reinforced concrete C20/25 bis	
	STA-17	Wurth W-FAZ PRO A4 M10 ⁴	C50/60 ² (cracked and uncracked)	
		HILTI HUS4-HR 8x75 [°]		
3		Fischer FBS II US R 8x60 ⁶	reinforced concrete C20/25 bis	
		Würth W-BS 2/A4 TYP H 8x707	C50/60 ² (uncracked)	
		Fischer FAZ II 10/10 R ¹		
4		HILTI HST3-R M10 ³		
		Würth W-FAZ PRO A4 M10 ⁴	reinforced concrete C20/25 bis	
5		HILTI HUS4-HR 8x65⁵	C50/60 ² (cracked and uncracked)	
		Fischer FBS II US R 8x60 ⁶		
		Würth W-BS 2/A4 TYP H 8x707		
		Fischer FIS SB 390 S ⁸		
6	POINT-15	HILTI HIT HY-200 ⁹		
		Würth WIT UH-300 ¹⁰	reinforced concrete C20/25 bis	
		Fischer FIS SB 390 S ⁸	C50/60 ² (cracked and uncracked)	
7	EAP-SPAR-15	HILTI HIT HY-200 ⁹		
		Würth WIT UH-300 ¹⁰		
8		Philipp flat steel anchor RD16	reinforced concrete C25/30 bis	
			C50/60 ² (cracked and uncracked)	
		Fischer FIS SB 390 S ⁸	reinforced concrete C20/25 his	
9	EAP-LOCK-11	HILTI HIT HY-200 ⁹	$C50/60^2$ (cracked and uncracked)	
		Würth WIT UH-300 ¹⁰		

Annexes 2 to 9 show the components and the system structure of the products.

1	ETA-05/0069	Fischer Bolt anchor FAZ II, FAZ II R, FAZ II HCR
2	EN 206:2013+A2:2021	concrete: specification, properties, production and conformity
3	ETA-98/0001	Hilti metal expansion anchor HST, HST-R, HST-HCR, HST3, HST3-R
4	ETA-20/0229	Würth Fixanchor W-FAZ PRO
5	ETA-20/0867	Hilti screw anchor HUS4
6	ETA-17/0740	Fischer concrete screw ULTRACUT FBS II A4
7	ETA-22/0123	Würth concrete screw W-BS 2/A4 und W-BS 2/HCR
8	ETA-12/0258	Fischer Superbond
9	ETA-11/0493	Injektion system Hilti HIT-HY 200-A
10	ETA-17/0127	Würth Injektion system WIT-UH 300 / WIT-VH 300 / WIT-VM 300 for concrete



2 Specification of the intended use in accordance with the applicable

The fall protection systems listed in Table 1 of this ETA is used to protect operators working at height, by arresting them in a fall. The operators attach themselves to the eye using e.g. ropes and karabiners. In the case of a fall the fall protection systems listed in Table 1 of this ETA prevent the fall and resulting physical damage assuming the correct usage by the operator. The fall protection systems listed in Table 1 of this ETA are designed for use in all areas of industry, construction and maintenance.

The performances given in Section 3 are only valid if the of the products listed in Table 1 of this ETA are used in compliance with the specifications and conditions given in Annexes 2 - 9.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the products listed in Table 1 of this ETA of at least 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works

3 Performance of the product and references to the methods used for its assessment

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Class A1

3.2 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Static loading	Level (kN); see respective product in the Annexes (2-9)
Dynamic loading	Level (No. of users); see respective product in the Annexes (2-9)
Check of deformation capacity in case of constraining forces	Level (mm); see respective product in the Annexes (2-9)
Durability	No performance assessed



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4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD No. 16-33-1072-06.01, the applicable European legal act is: Decision (EU) 2018/771.

The system to be applied is 1+

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are given in EAD Nr. 331072-01-0601 "Table 3.1 Control plan for the manufacturer; cornerstones".

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Annex	Tradename (Product of this ETA)	Fastener	Supporting structure
		Fischer FAZ II 10/10 R ^{b)}	
2		HILTI HST3-R M10 ^{c)}	reinforced concrete C20/25 to C50/60 ^{a)}
	STA_17	Würth W-FAZ PRO A4 M10 ^{d)}	(cracked and uncracked)
	51A-17	HILTI HUS4-HR 8x75 ^{e)}	
3		Fischer FBS II US R 8x60 ^{f)}	reinforced concrete C20/25 to C50/60 ^{a)}
		Würth W-BS 2/A4 TYP H 8x70 ^{g)}	(uncracked)
		Fischer FAZ II 10/10 R ^{b)}	
4	4	HILTI HST3-R M10 ^{c)}	
	OUAD-11	Würth W-FAZ PRO A4 M10 ^{d)}	
5	HILTI HU\$4-HR 8x65 ^{e)}		
		Fischer FBS II US R 8x60 ^{f)}	
		Würth W-BS 2/A4 TYP H 8x70 ^{g)}	reinforced concrete C20/25 to C50/60 ^{a)}
	_	Fischer FIS SB 390 S ^{h)}	(cracked and uncracked)
6	POINT-15	HILTI HIT HY-200 ⁱ⁾	
		Würth WIT UH-300 ^{J)}	
		Fischer FIS SB 390 S ^{h)}	
7	EAP-SPAR-15	HILTI HIT HY-200 ⁱ⁾	
		Würth WIT UH-300 ^{J)}	
8	EAP-POINT-16	Philipp flat steel anchor RD16	reinforced concrete C25/30 to C50/60 ^{a)} (cracked and uncracked)
		Fischer FIS SB 390 S ^{h)}	
9	EAP-LOCK-11		reinforced concrete C20/25 to C50/60 "
	l T	Würth WIT UH-300 [®]	(cracked and uncracked)

Annexes 2 to 15 show the components and the system structure of the products. All components of the anchor device can be used in weathered outdoor areas.

a b	EN 206:2013+A2:2021	concrete: specification, properties, production and conformity
с	ETA-05/0069	Tischer Bolt anchor FAZ II, FAZ II R, FAZ II HCK
d	ETA-98/0001	Hilu metal expansion anchor HST, HST-R, HST-HCR, HST3, HST3-R
e	ETA-20/0229	Wurth Fixanchor W-FAZ PRO
f	ETA-20/0807	fischer concrete screw III TRACLIT ERS II AA
g	ETA-22/0123	Würth concrete screw W-BS 2/A4 und W-BS 2/HCB
h	ETA-12/0258	fischer Superbond
i	ETA-11/0493	njection system Hilti HIT-HY 200-A
j	ETA-17/0127	Würth Injection system WIT-UH 300 / WIT-VH 300 / WIT-VM 300 für Beton

INNOTECH Fall protection systems for anchoring in concrete substructures

Annex 1.1

Overview and design values

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Design values of actions

$$F_{Ed} = F_{Ek} * \gamma_F$$

The recommended partial factor γ_{F} is 1,5.

The recommended partial factor is used in order to determine the corresponding design actions, provided no partial factor is given in national regulations or national Annexes to Eurocode 0. That leads to the following tables:

Example:

for one user: $F_{Ed} = F_{Ek} * \gamma_F = 6 \ kN * 1,5 = 9 \ kN$ for two users: $F_{Ed} = F_{Ek} * \gamma_F = (6 + 1) \ kN * 1,5 = 10,5 \ kN$ for three users: $F_{Ed} = F_{Ek} * \gamma_F = (6 + 2) \ kN * 1,5 = 12 \ kN$ for four users: $F_{Ed} = F_{Ek} * \gamma_F = (6 + 3) \ kN * 1,5 = 13,5 \ kN$

Static loading / design resistance

$$F_{Rd} = F_{Rk} / \gamma_M$$

The recommended partial factor γ_M is 1,5, proviede no partial factor is given in national regulations or national Annexes of Eurocode 2.

Dynamic loading / design resistance

See max. number of users on following annexes

Deformation capacity

See deformation at 0,7 kN on following annexes

INNOTECH Fall protection systems for anchoring in concrete substructures

Annex 1.2

Overview and design values

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Design values of the load capacity						
Fastener	Concrete thickness [mm]	Edge distance [mm]	h _{eff} [mm]	հ <u>։</u> [mm]	F _{R,d} [kN]	Dynamic load [users]
Fischer FAZ II 10/10 R			≥43			
HILTI HST3-R M10	≥ ₁₀₀	≥ 150	≥47	≥ 60	13,5	4
Würth W-FAZ PRO A4 M10			≥49			
M16 Ø 42 Ø 12 O 200 Page of the second secon			Edge Stance		Deformation C 20 C 20	on at 0,7 kN: 6,2 mm
		w opole autors in	0000	ubotinisti		
INNOTECH Fall protection systems for anchoring in concrete substructures STA-17 for fixing on concrete with bolt anchor						Annex 2

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	Design values of the load capacity						
Fastener	Concrete thickness [mm]	Edge distance [mm]	h _{nom} [mm]	հ <u>1</u> [mm]	F _{R,d} [kN]	Dynamic load [users]	
HILTI HUS4-HR 8x75			≥ 60	≥ 70	13,67**	-	
Fischer FBS II US R 8x60	≥100	≥ 150	≥ 50	≥ 60	15,26*	4	
Würth W-BS 2/A4 TYP H 8x70			≥ 50	≥ 60			
** Concrete: cracked and uncrack	red					یں پر م	
Ø 42 Ø 12	300 - 600	9	L L		² C 20/ ² 5 ⁴ ⁴ ⁷ (Ø 8 Drilli	ng diameter	
All dimensions in [mm]	20	0 Edge distance		,,only	for HILTI I	HUS4-HR 8x75"	
Consider ETA of the fastener: comp	liance with the nor	minal embedment o	lepth h _{nom} must	be adjusted by	/ washers (A2)	if necessary	
INNOTECH Fall protection	n systems for	anchoring in o	concrete su	bstructures	6		
Annex 3 STA-17 for fixing on concrete with concrete screw					Annex 3		

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Design values of the load capacity						
Fastener	Concrete thickness [mm]	Edge distance [mm]	h _{eff} [mm]	հ <u>ւ</u> [mm]	F _{R,d} [kN]	Dynamic load [users]
Fischer FAZ II 10/10 R			≥ 53	≥ 70		
HILTI HST3-R M10	≥100	≥ 150	≥ 53	≥61	12,44	3
Würth W-FAZ PRO A4 M10			≥ 53	≥64		2113 Jun 6720131 Bullion
Ø 12 0 205 235 All dimensions in [mm]		200 - 600	t Ledoe		Deformatio	n at 0,7 kN: ≤ 10 mm
INNOTECH Fall protecti	on systems fo	or anchoring in	concrete s	ubstructure	s	
QUAD-11 for fixing on c	concrete with	bolt anchor				Annex 4

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Design values of the load capacity							
Fastener	Concrete thickness [mm]	Edge distance [mm]	h _{nom} [mm]	h ₁ [mm]	F _{R,d} [kN]	Dynamic load [users]	
HILTI HUS4-HR 8x65 Fischer FBS II US R 8x60 Würth W-BS 2/A4 TYP H 8x70	≥100	≥ 150	≥ 60 ≥ 50 ≥ 50	≥ 70 ≥ 60 ≥ 60	12,44	3	
	8				Jeformation	4	
<u>Ø 1</u>	6	200 - 600	Ē		C 20/25 C 20/25 A A A Ø	ng diameter	
Ø 12 205 235		205				Concrete thickness	
All dimensions in [mm] Consider ETA of the fastener: comp	liance with the non	Ledy distant	lepth hrom must	be adjusted by	Edge distan	ce if necessary	
INNOTECH Fall protection	n systems for	anchoring in d	concrete su	bstructures	6		
QUAD-11 for fixing on co	Annex 5 QUAD-11 for fixing on concrete with concrete screw						

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Design values of the load capacity							
Fastanar	Concrete	Edge distance	ho	F _{R,d}	Dynamic load		
Fastellei	thickness [mm]	[mm]	[mm]	[kN]	[users]		
Fischer FIS SB 390 S							
HILTI HIT HY-200		≥ 220	- ≥85 -	12	3		
Würth WIT UH-300	≥125						
Fischer FIS SB 390 S	120		200	071 072	210		
HILTI HIT HY-200		≥ 200		9,9	3		
Würth WIT UH-300							
		olge Stance	20 - 25		Concrete Po Concrete thickness Beance		
All dimensions in [mm]							
INNOTECH Fall protection	INNOTECH Fall protection systems for anchoring in concrete substructures						
POINT-15 for fixing on co	ncrete with bon	ded anchor			Annex o		

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Design values of the load capacity							
Fastener	Concrete	Edge distance	ho	F _{R,d}	Dynamic load		
	thickness [mm]	[mm]	[mm]	[kN]	[users]		
Fischer FIS SB 390 S							
HILTI HIT HY-200	≥125	≥ 300	≥ 85	14,11	2		
Würth WIT UH-300							
All dimensions in [mm]	<u>М16</u>	Concrete thickne		Deformation of the second seco	g diameter		
INNOTECH Fall protection	ires	Annex 7					
EAP-SPAR-15 for fixing on concrete with bonded anchor							

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Design values of the load capacity								
Fastener	Concrete thickness [mm]	Edge distance [mm]	thread excess [mm]	F _{R,d} [kN]	Dynamic load [users]			
Philipp flat steel anchor RD16	≥70	≥ 500	25 - 27	19,22	3			
Reinforced concrete min. C25/30				Deformation	n at 0,7 kN:≤10 mm			
		500	PHILIPP RD16/80	flat steel anch 0x80x55mm	hor $-\emptyset 10$ 0			
All dimensions in [mm]	4x Ø # 131 -051	mm ² / m	PHILIPP fi RD16 / 80	at steel anch x80x55mm	Concrete			
INNOTECH Fall protection	systems for	anchoring in c	oncrete substructure	s				
EAP-POINT-16 for fixing o		Annex 8						

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Design values of the load capacity							
Fastener	Concrete	Edge distance	ho	F _{R,d}	Dynamic load		
	thickness [mm]	[mm]	[mm]	[kN]	[users]		
Fischer FIS SB 390 S		> 150*		12 57*			
HILTI HIT HY-200	≥140	≥ 300**	≥ 100	10,5**	2		
Würth WIT UH-300				,_			
* Concrete: only uncracked		ter		Deformation	n at 0,7 kN: ≤ 10 mm		
M22	C 20/25	 Ø24 - 25 Drilling diame 			 ▲ ▲ ▲ Ø24 - 25 Drilling diam. 		
00 - 2		Concr	ete ness	Edge	Edge distance		
All dimensions in [mm] • Usage only in conjunction with EAP-LOCK-13!							
INNOTECH Fall protection systems for anchoring in concrete substructures							
EAP-LOCK-11 for fixing in concrete with bonded anchor					Annex 9		