

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-99/0011
of 2 October 2018

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

Würth Fixanchor W-FAZ and W-FAZ-IG

Product family
to which the construction product belongs

Mechanical fastener for use in concrete

Manufacturer

Adolf Würth GmbH & Co. KG
Reinhold-Würth-Straße 12 -17
74653 Künzelsau
DEUTSCHLAND

Manufacturing plant

Herstellwerk W1, Deutschland

This European Technical Assessment
contains

36 pages including 3 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 330232-00-0601

This version replaces

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Specific Part

1 Technical description of the product

The Wedge anchor W-FAZ and W-FAZ-IG is an fastener made of zinc plated steel, stainless steel or high corrosion resistant steel which is placed into a drilled hole and anchored by torque-controlled expansion. The following fastener types are covered:

- Fastener type W-FAZ with external thread, washer and hexagon nut, sizes M8 to M27,
- Fastener type W-FAZ-IG S with internal thread, hexagon head nut and washer S-IG, sizes M6 to M12,
- Fastener type W-FAZ-IG SK with internal thread, countersunk head screw and countersunk washer SK-IG, sizes M6 to M12,
- Fastener type W-FAZ-IG B with internal thread, hexagon nut and washer MU-IG, sizes M6 to M12.

The product description is given in Annex A.

2 Specification of the intended use in accordance with the applicable European Assessment Document

The performances given in Section 3 are only valid if the fastener is used in compliance with the specifications and conditions given in Annex B.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the fastener of at least 50 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 Mechanical resistance and stability (BWR 1)

Essential characteristic	Performance
Characteristic resistance to tension load (static and quasi-static loading)	for W-FAZ see Annex C1 to C4 for W-FAZ-IG see Annex C11 to C12
Characteristic resistance to shear load (static and quasi-static loading)	for W-FAZ see Annex C5 for W-FAZ-IG see Annex C13
Displacements (static and quasi-static loading)	for W-FAZ see Annex C9 to C10 for W-FAZ-IG see Annex C15
Characteristic resistance and displacements for seismic performance categories C1 and C2	for W-FAZ see Annex C6, C9 and C10

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Class A1
Resistance to fire	for W-FAZ see Annex C7 to C8 for W-FAZ-IG see Annex C14

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

In accordance with the European Assessment Document EAD 330232-00-0601 the applicable European legal act is: [96/582/EC].

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 laid down in the control plan deposited with Deutsches Institut für Bautechnik.

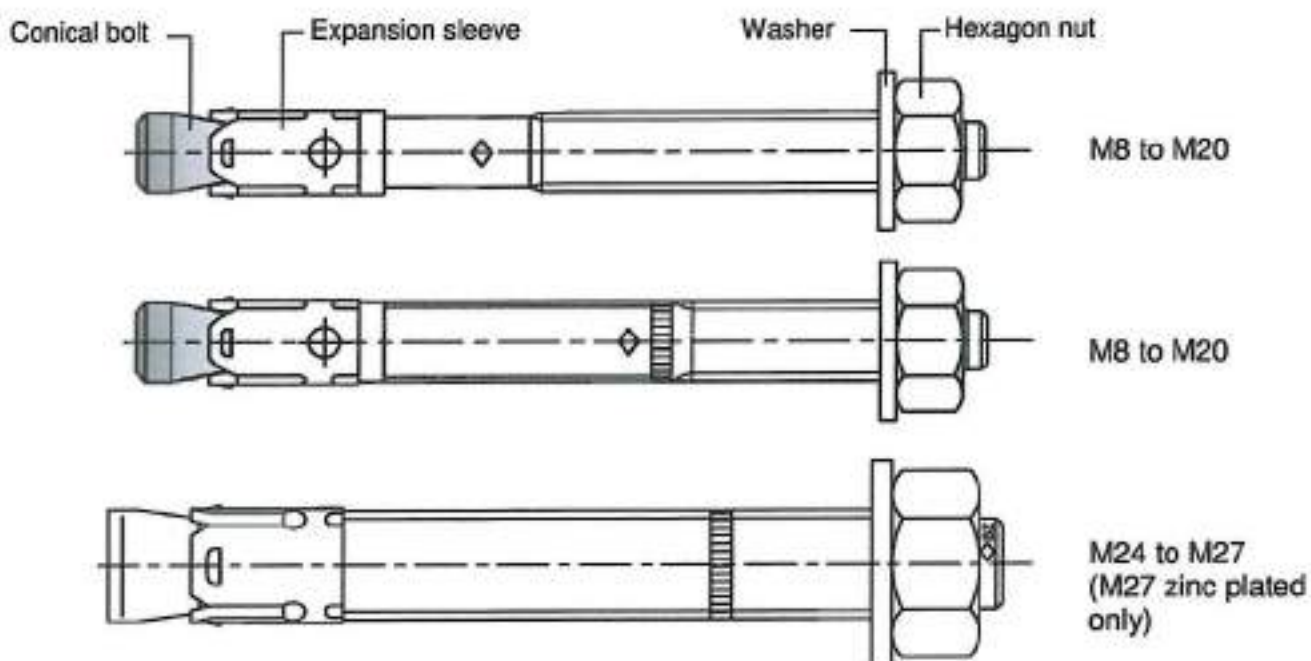
Issued in Berlin on 2 October 2018 by Deutsches Institut für Bautechnik

BD Dipl.-Ing. Andreas Kummerow
Head of Department

beglaubigt:
Baderschneider

Fastener version	Product description	Intended use	Performance
W-FAZ	Annex A1 - Annex A4	Annex B1 – Annex B7	Annex C1 – Annex C10
W-FAZ-IG	Annex A1 Annex A5 – Annex A7	Anhang B1 – Anhang B2 Anhang B8 – Anhang B10	Anhang C11 – Anhang C15

Fixanchor W-FAZ



Fixanchor W-FAZ-IG M6 to M12

Fastener system

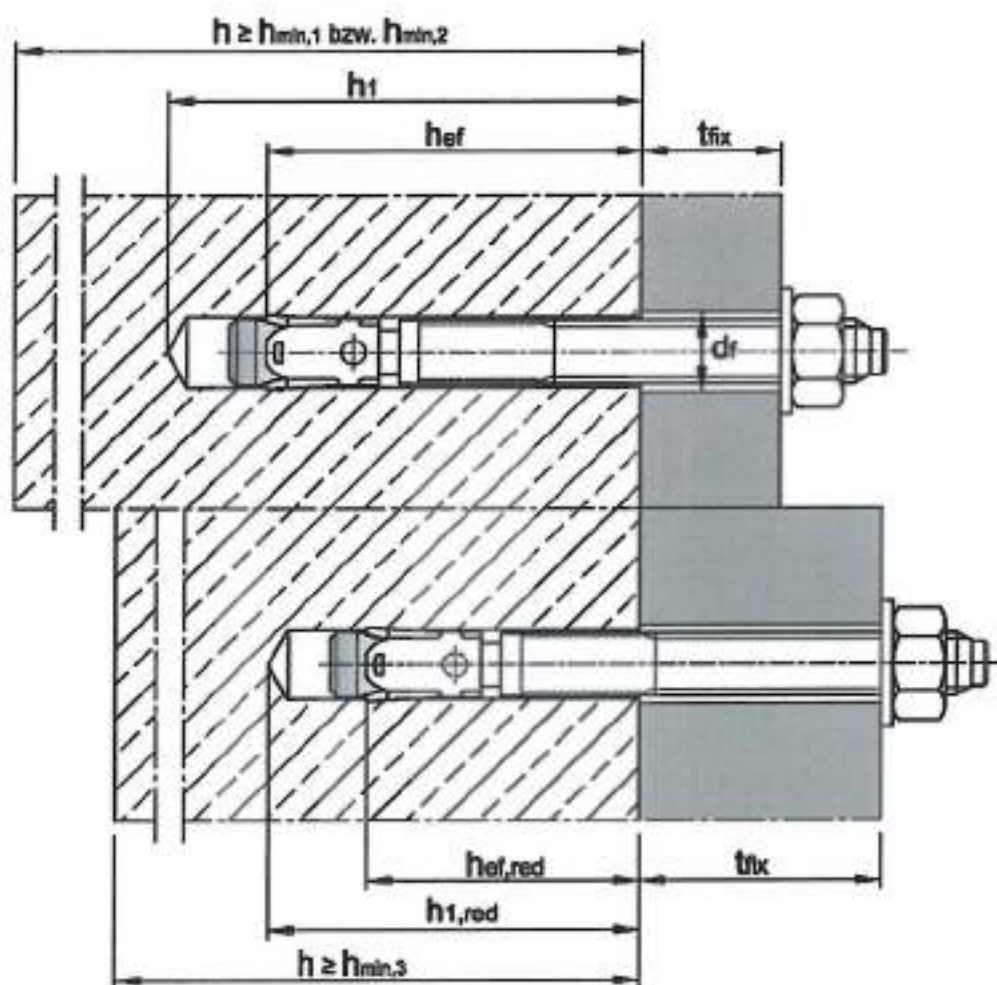
W-FAZ-IG S	<p>Conical bolt</p> <p>Expansion sleeve</p>	<p>Washer</p>	<p>Hexagon head screw</p>
W-FAZ-IG SK		<p>Countersunk washer</p>	<p>Countersunk head screw</p>
W-FAZ-IG B		<p>Washer</p>	<p>Hexagon nut</p> <p>Commercial standard rod</p>

Würth Fixanchor W-FAZ and W-FAZ-IG

Product description
Fastener types

Annex A1

Intended use Fixanchor W-FAZ



Würth Fixanchor W-FAZ

Product description
Installation situation W-FAZ

Annex A2