

11.1

W-FA/S, W-FA/hot galv. Fixing Anchor

Individual attachment:
Uncracked concrete

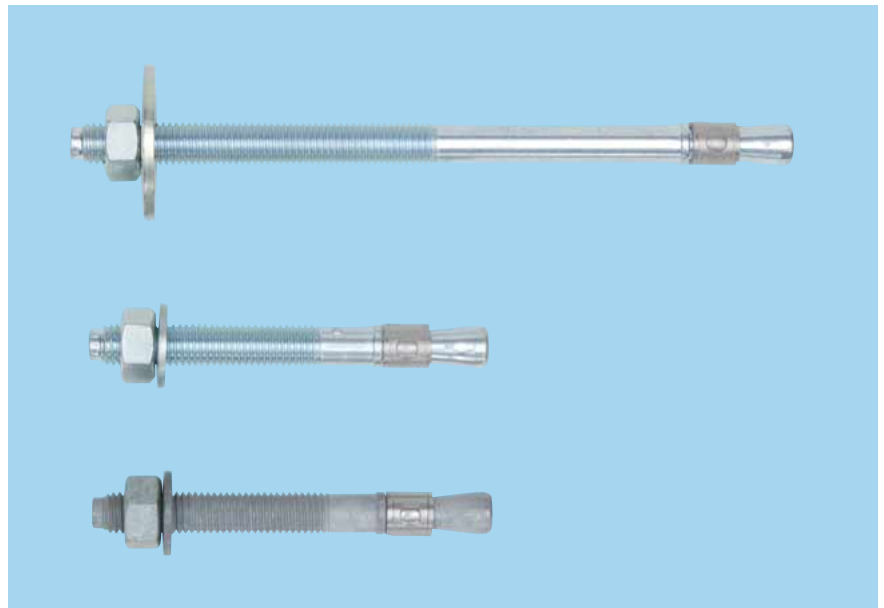
Multiple attachment:
Anchoring of light ceiling coverings and joist constructions
Cracked and uncracked concrete

W-FA/S, Galvanized steel with large washer



W-FA/S, Galvanized steel

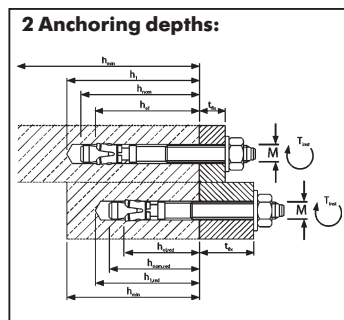
W-FA/hot galvanized, hot galvanized steel

For W-FA/A4 Fixing Anchor, see **11.2**
For W-FA/HCR M6 Fixing Anchor, see **11.2**



Proof of Performance

Approvals		Test reports
<p>European Technical Approval Option 7 for uncracked concrete</p> 	<p>Ceiling Suspended ceiling and comparable static attachments</p> 	<p>Fire resistance Direct effect of flames</p> 



Machine Setting Tool for Fixing Anchor (W-FA/W-FAZ) M8 – M16



Art. No. 0904 908 016
For details, see separate product information

1. Applications

- Can be used for medium to heavy loads
- **Suitable for fastening** metal constructions, metal profiles, brackets, foot plates, supports, cable conduits, pipes, wood structures, beams, purlins, etc.
- With European Technical Approval, the anchor can be used in reinforced or unreinforced standard concrete of a strength class of at least C20/25 and at most C50/60 in accordance with EN 206-1:2000-12
- Can be used in <C20/25 concrete and pressure-resistant natural stone (without approval)
- The anchor may be used for anchorage with primarily static loads or quasi-static loads (e.g. façades, railings)
- **Individual attachment:** Anchoring with European Technical Approval in uncracked concrete (concrete pressure zone)
- **Multiple attachment:** Anchoring of light ceiling coverings and joist constructions in accordance with DIN 18168 and for comparable static anchoring up to 1.0 kN/m² with general construction permit
- W-FA/S and W-FA/hot galvanized may **only be used under the conditions of dry interior** rooms

2. Advantages

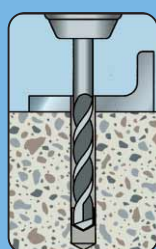
- High loads, small axle bases and edge clearances
- Time-saving through-bolt mounting

- **Two anchoring depths** → Flexible use for medium and heavy loads
- Can be loaded immediately – no waiting times
- Reliable installation due to application of prescribed torque during anchoring

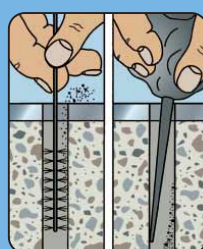
3. Features

- Force-controlled/torque-controlled spreading anchor made of electrogalvanized and hot galvanized steel in sizes M6, M8, M10, M12, M16 and M20
- Approvals:
 - **ETA-02/0001 for individual attachment**
Option 7, uncracked concrete, galvanized and hot galvanized steel M6 – M20; dimensioned in accordance with the “Guideline for European Technical Approval (ETAG) for Anchoring Metal Anchors in Concrete”, Appendix C, Measurement Process A
 - **Z-21.1-1598 General construction permit for multiple attachment**
Galvanized steel M6 – M10, anchoring of light ceiling coverings and joist constructions according to DIN 18168
- Fire resistance: W-FA/S (M6-M20) F30, F60, F90 and F120
Fire stress according to DIN 4102-02: 1977-09 (standard temperature time curve)

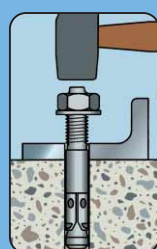
Setting instructions



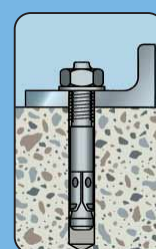
Drill hole



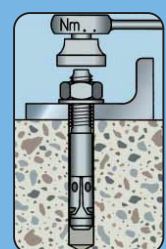
Clean drilled hole



Knock in anchor with mason's mallet or machine setting tool



Set anchor in place



Apply torque