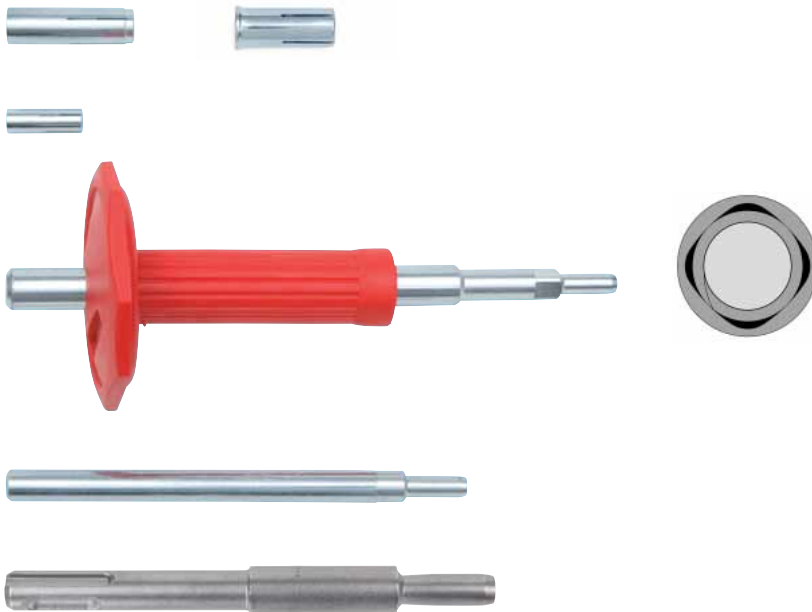


# W-ED/S W-ED DRIVE-IN ANCHOR

13.1



### W-ED/S

Galvanized steel, M6 – M20

### W-ED/S-BND

Galvanized steel, M8 – M12

### W-ED

Galvanized steel, M5, without approval

### Marking-spreading tool with hand protection

(→ visual setting check)

### Spreading tool

(→ no visual setting check)

### Machine setting tool






(With SDS-plus mounting shaft, no visual setting check)

W-ED/A4 Drive-In Anchor, see **13.2**

W-ED M12 Drive-In Anchor (for core drills), see **13.3**

W-ED DW15 Drive-In Anchor, see **13.3**

## Performance facts

Approvals			Test reports	
<b>European Technical Approval</b> Option 7 for uncracked concrete 	<b>European Technical Approval</b> Multiple attachment of non-load-bearing systems in concrete 	<b>Fire resistance</b> <b>Technical Report TR 020 R30-R120</b> 	<b>M8-M16</b> 	<b>Fire resistance</b> Direct flame effect 

### 1. Applications

- Can be used for medium to heavy loads
- W-ED/S, W-ED/S-BND and W-ED M5 may only be used in dry interior rooms
- Suitable for attaching threaded rods, metal structures, metal profiles, grids, cable conduits, pipelines, mounting rails etc.
- With European Technical Approval, the anchor may be used in reinforced or non-reinforced standard concrete of a strength class of at least C20/25 and at most C50/60 in accordance with EN EN 206-1:2000-12.
- For use in concrete < C20/25 and pressure-resistant natural brick (without approval)
- The anchor may only be used for anchorage with primarily static loads (e.g. own weight, installations, support materials) or quasi-static loads (e.g. façades, railings)
- **Individual fastening:** Anchorage 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/m<sup>2</sup> with general construction permit

### 2. Advantages

- Low drilled hole depth
- High load-bearing capacities
- Easy installation due to low knock-in energy
- Visual setting check and hand protection when installing with marking-spreading tool
- The machine setting tool simplifies and speeds up installation. Can also be used with rotary percussion.
- Can be loaded immediately – no waiting times
- Attachment can easily be undone again at any time
- W-ED/S with collar enables flush-mounted setting and prevents deeper slipping into the drilled hole. This increases installation reliability.

### 3. Features

- Path-controlled spreading anchor made of electrogalvanized steel in sizes M5, M6, M8, M10, M12, M16 and M20
- The attached part can be fastened with a securing screw or a threaded rod
- Approvals:
  - ETA-02/0044 for individual fastening**  
Option 7, uncracked concrete, galvanized steel M6 – M20; dimensioned in accordance with the „European Technical Approval Guideline (ETAG) of Metal Anchors for Use in Concrete“ Appendix C, Measurement Process A
  - ETA-05/0120 for multiple attachment of non-load-bearing systems in concrete**  
Uncracked or cracked concrete, galvanized steel M6 – M20; dimensioned in accordance with the „European Technical Approval Guideline (ETAG) of Metal Anchors for Use in Concrete“ Appendix C, Measurement Process B
- Fire resistance:
  - R30, R60, R90, R120:** Technical Report TR 020 „Assessment of anchoring in concrete with regard to fire resistance“ (included in ETA-05/0120);
  - F30, F60, F90, F120:** Fire load in accordance with DIN 4102-02: 1977-09 (uniform temperature curve)

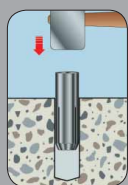
## Setzanweisung



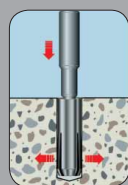
Create drilled hole



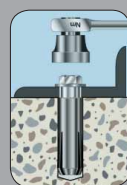
Clean drilled hole



Knock in anchor until flush



Anchor with spreading tool



Secure component Apply torque