

# 13.1

## W-ED/S W-ED Drive-In Anchor

### W-ED/S

Galvanized steel, M6 – M20

### W-ED

Galvanized steel, M5, w/o approval

### Marking-spreading tool with hand guard

(→ visual setting check)

### Spreading tool

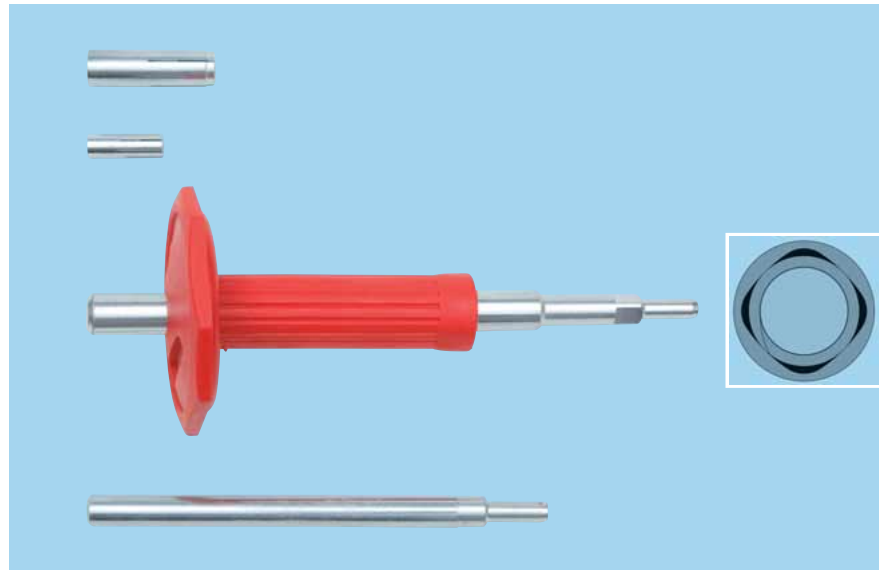
(→ no visual setting check)

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**



### Evidence of Performance

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> Direct flame effect 

### 1. Applications

- Can be used for medium to heavy loads
- W-ED/S and W-ED M5 may only be used in dry interior rooms
- Suitable for attaching threaded rods, metal structures, metal profiles, grids, cable conduits, pipes, mounting rails etc.
- With European Technical Approval, the anchor can 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 206-1:2000-12
- For use in concrete < C20/25 and pressure-resistant natural stone (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 attachment:** 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

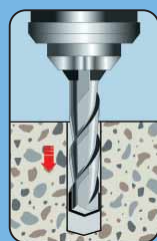
### 2. Advantages

- Shallow drilled hole depth
- High load-bearing capacities
- Easy installation due to low knock-in energy
- Visual setting check and hand guard when installing with marking-spreading tool
- Can be loaded immediately – no waiting time
- Attachment can easily be detached again at any time

### 3. Properties

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

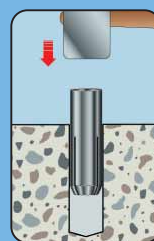
### Setting Instructions



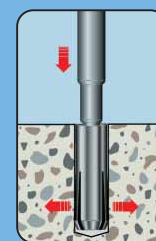
Drill hole



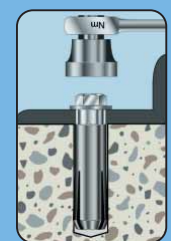
Clean drilled hole



Knock in anchor until flush



Anchor with spreading tool



Secure component Apply torque