

21.1

# W-VD/S Shear-Anchor Cartridge System

Individual attachment:  
Uncracked concrete

Galvanized steel

W-VD/A4 Shear-anchor cartridge system see [21.2](#)

W-VD/HCR Shear-anchor cartridge system see [21.2](#)



## Evidence of performance

Approvals	Test reports
<p><b>European Technical Approval</b></p> <p>Option 8 for uncracked concrete</p> 	<p><b>Fire Resistance</b></p> 

## 1. Applications

- Can be used for medium to heavy loads
- With European Technical Approval, the anchor can be used in reinforced or non-reinforced standard concrete with a strength class of at least C20/25 and at most C50/60 in accordance with EN 206:2000-12
- Anchorage with European Technical Approval in uncracked concrete (concrete pressure zone)
- The anchor may be used for anchorage with primarily static loads (e.g. own weight, installations, support materials) or quasi-static loads
- Installation in dry or wet concrete
- The temperature in the mortar area may not exceed +50°C and briefly +80°C
- For use in concrete < C20/25 and pressure-resistant natural stone (without approval)
- W-VD/S (galvanized steel) can be used in dry interior rooms

### Drill hole cleaning

Cleaning the drill hole: 1x blow-out, 1x brush-out, 1x blow-out, 1x brush-out

### Installation instructions

Set anchor bar rotating and + impacting with hammer drill or percussion drill.

- Suitable for fastening metal constructions, metal profiles, brackets, foot plates, supports, wood structures, beams etc.

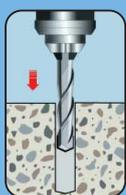
## 2. Advantages

- Heavy loads, small axial and edge distances
- Hardened composite mortar largely seals off the drill hole
- Attachment with low expansion pressure allows small edge and axial clearances

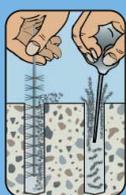
## 3. Properties

- Anchoring through bond between mortar, anchor bar and anchoring base. Galvanized anchor bar in the sizes M8, M10, M12, M16, M20 and M24
- Galvanized steel: European Technical Approval ETA-06/0074
- Dimensioned in accordance with the "Guideline for European Technical Approval (ETAG) of Metal Anchors for Use in Concrete", Annex C, dimensioning method A
- Fire resistance: **F30, F60, F90, F120**: One-sided fire stress according to DIN EN 1363-1:1999-10

## Setting instructions



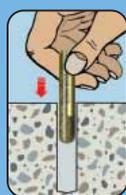
Drill hole



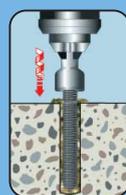
1x blow-out,  
1x brush-out,  
1x blow-out,  
1x brush-out



Resin must flow like  
honey when cartridge  
is hand-warm



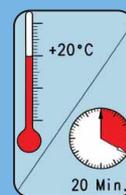
Push in cartridge



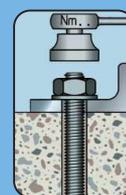
Set threaded rod rotating/  
impacting



Visual check  
of mortar filling  
quantity



Observe the  
hardening time  
20 Min.



Mount component,  
apply torque