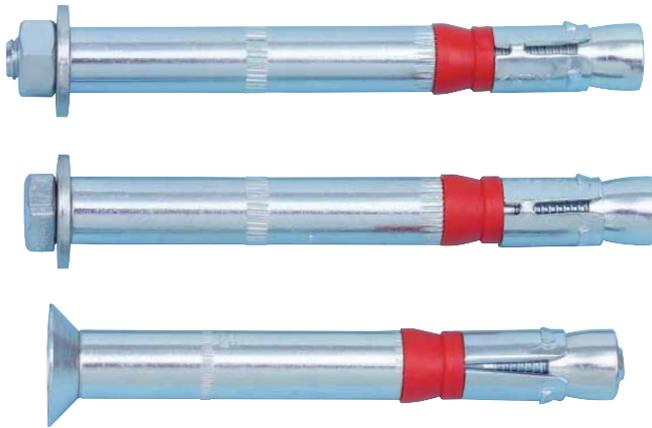


W-HAZ/S HIGH-PERFORMANCE ANCHOR

03.1



Individual attachment:

Cracked and uncracked concrete

W-HAZ-B/S

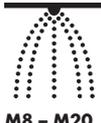
with threaded bolt, galvanized steel

W-HAZ-S/S

with hexagon screw, galvanized steel

W-HAZ-SK/S

with countersunk screw, galvanized steel

| Proof of performance | | | |
|---|--|--|---|
| Approvals | | Test reports | |
| <p>European Technical Approval Option 1 for cracked and uncracked concrete</p>  | <p>Fire resistance technical report TR 020 R 30 - R 120</p>  |  <p>M8 - M20</p> | <p>Fire resistance Direct flame effect</p>  |

1. Areas of use

- Can be used for heavy loads
- With a 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 206: 2000-12
- Anchorage with European Technical Approval in cracked concrete (concrete tensile zone) and in uncracked concrete (concrete pressure zone)
- The anchor may be used for anchorages with primarily static loads (e.g. own weight, equipment, support materials) or quasi-static loads (e.g. facades, railings)
- For use in concrete < C20/25 and pressure-resistant natural stone (without approval)
- W-HAZ/S can be used in dry interior rooms
- Suitable for fastening metal constructions, metal profiles, brackets, foot plates, supports, cable conduits, pipes, railings, machines etc.

2. Advantages

- High loads, small axle and edge spacing
- Pass-through mounting
- Can be loaded immediately - no waiting
- Large range of types means a large range of applications
- Reliable mounting when the prescribed torque is applied when anchoring

3. Features

- Force-controlled/torque-controlled spreading anchor made of electrogalvanized steel in sizes M6, M8, M10, M12, M16 and M20
- Galvanized steel: European Technical Approval ETA-02/0030031 (option 1, cracked and uncracked concrete)
- Dimensioned in accordance with the "Guideline for European Technical Approval (ETAG) of Metal Anchors for Use in Concrete," Appendix C, measurement process A
- Fire resistance: **R30, R60, R90 and R120:** Technical Report TR 020 "Assessment of anchoring in concrete with regard to fire resistance (included in ETA-02/0031)"; **F30, F60, F90 and F120:** Fire load in accordance with DIN 4102-02: 1977-09 (uniform temperature curve)

Setting instructions

