

W-SA/S SCREW ANCHOR

01.2

Individual attachment:

Cracked and uncracked concrete





Galvanized steel

Type ST Stud screw

Connecting thread M12

Proof of performance

Approvals	
European Technical Approval Option 1 for cracked and uncracked concrete	Fire resistance Technical Report TR 020 R30 - R120
	

1. Areas of use

- Can be used for medium to heavy loads
- The anchor may be used, with European technical approval, in reinforced or unreinforced normal concrete of

2. Advantages

- High loads, small axle bases and edge clearances
- Through-bolt mounting
- Low borehole depth
- Small borehole diameter
- Can be loaded immediately – no waiting times
- Virtually no spreading effect, enabling small edge clearances and axle bases to be complied with
- Complete, easy, fast removal
- Fast, easy installation by screwing screw anchor into drilled hole

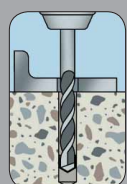
3. Properties

- Anchoring through positive locking
- When screwing the anchor into the pre-drilled hole, the saw-tooth threads cut into the concrete
- Galvanized steel: European Technical Approval ETA-09/0395
- Measurement in accordance with the „European technical approval guideline (ETAG) for metal anchors anchored in concrete“, Appendix C, measurement process A and CEN/TS 1992-4-4 „Measurement of the anchoring of attachments in concrete“, Part 4-4: „Anchors – Mechanical systems,“ measurement method A
- Fire resistance (anchoring base: concrete C20/25 to C50/60): **R30, R60, R90, R120:** Technical Report TR 020 "Evaluation of Anchorages in Concrete with Regard to Fire Resistance" (contained in ETA-09/0395)

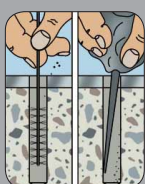
a strength class of minimum C20/25 and maximum C50/60 in accordance with EN 206:2000-12.

- 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 (e.g. own weight, installations, support materials) or quasi-static loads (e.g. façades, railings)
- For use in concrete < C20/25 and pressure-resistant natural stone (without approval)
- W-SA/S (galvanized steel) can be used in dry interior rooms
- Suitable for the attachment of metal profiles, pipelines, ventilation ducts, wood structures etc.

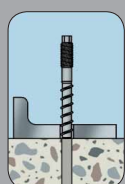
Setting instructions



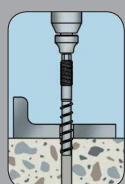
Drill the hole



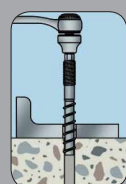
Clean the drilled hole



Position the anchor



Screw in the screw anchor with a tangential impact screw (tool holder < 3/4") or manually



Apply tightening torque to nut