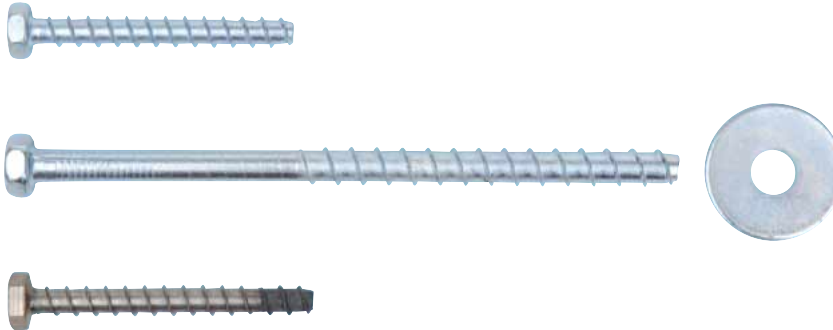


W-SA SCREW ANCHOR

02.1



Individual attachment:

Cracked and uncracked concrete

W-SA

galvanized steel

- dia. 7.5
- dia. 10
- dia. 12
- dia. 12 with large U washer
- dia. 14
- dia. 16
- dia. 20




W-SA A4

Stainless steel A4

- dia. 7.5
- dia. 10
- dia. 12

Performance facts

Approvals

European Technical Approval Option 1 for cracked and uncracked concrete 	Fire resistance Technical Report TR 020 R30-R120 	Galvanized steel dia.7.5-16 Stainless steel A4 dia.7.5-12 
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1. Applications

- Can be used for medium to heavy loads
- 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 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 (galvanized steel) can be used in dry interior rooms
- W-SA A4 (stainless steel A4) may be used in dry indoor rooms, outdoors (including industrial atmospheres and near the sea) or in humid rooms if no especially aggressive conditions exist
- Suitable for fastening metal constructions, metal profiles, brackets, foot plates, supports, cable conduits, pipes, railings, wood structures, beams, purlins etc.

2. Advantages

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

3. Features

- 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-05/0012
- Stainless steel A4: European Technical Approval ETA-06/0277
- 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 (anchoring base: concrete C20/25 to C50/60): **R30, R60, R90, R120**: Technical Report TR 020 "Evaluation of Anchorage in Concrete with Regard to Fire Resistance" (contained in ETA-05/0012 or ETA-06/0277)

Setting instructions

