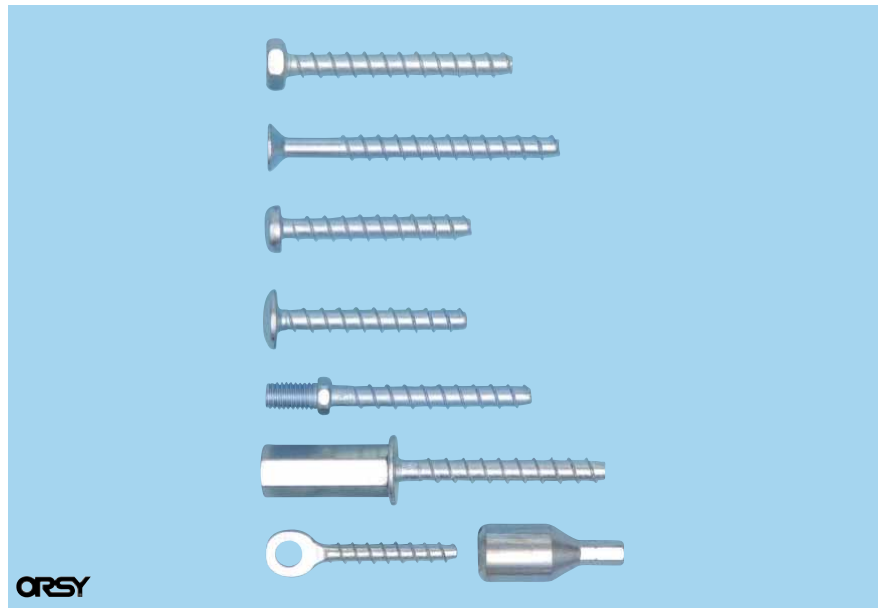


# 16

## Screw Anchor W-SA

### Galvanised steel

<b>Type SS</b>	Hexagon head
<b>Type SK</b>	Countersunk head 90°
<b>Type P</b>	Pan head
<b>Type MS</b>	Mounting rail screw
<b>Type ST</b>	Stud screw Connecting thread M6 and M8
<b>Type I</b>	Anchor with inside thread M8 / M10
<b>Typ O</b>	Ring anchor



### Proof of performance

Approvals		Test Reports
<b>Pressure zone</b> uncracked concrete	<b>Ceiling</b> suspended ceiling and comparable static attachments	<b>Fire resistance</b>

### 1. Applications

- Can be used for medium to heavy loads
- With a general construction permit, the anchor may be used in reinforced or non-reinforced standard concrete of the strength class of at least C20/25 and a maximum of C50/60 in accordance with EN 206-1:2001-07 or of at least B25 and a maximum of B55 in accordance with DIN 1045:1988-07
- Anchoring with general construction permit in uncracked concrete (concrete pressure zone)
- 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
- The anchor may be used in anchorages primarily subject to resting loads
- For use in concrete < B25, pressure-resistant natural stone, sand-lime brick, solid brick and clinker (without approval)
- W-SA can be used in dry interior rooms
- Suitable for securing metal profiles, pipelines, ventilation ducts, wood substructures and suspended ceilings

### 2. Advantages

- High loads, small axial and edge distances
- Through-bolt mounting
- Shallow drilled hole depth
- Small drilling diameter
- Can be loaded immediately – no wait time

- Virtually no spreading effect, enabling small edge and axial distances to be complied with
- Fast, easy installation by screwing screw anchor into drilled hole
- Complete, easy, fast removal
- Large range of types → large range of applications

### 3. Properties

- Anchoring through positive locking
- When screwing the anchor into the pre-drilled hole, the saw-tooth threads cut into the concrete
- Approvals:  
**Uncracked concrete (concrete pressure zone):**  
 Galvanised steel 6 and 7.5 mm dia.; General Construction Permit Z-21.1-1597; dimensioning according to Permit Z-21.1-1597  
**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> in concrete:**  
 Galvanised steel 6 and 7.5 mm dia.; General Construction Permit Z-21.1-1597; dimensioning according to Permit Z-21.1-1597
- Fire resistance: F30, F60, F90 and F120 (anchoring base: concrete, solid brick, sand-lime brick, perforated sand-lime brick)  
 Fire stress in accordance with DIN 4102-02: 1977-09 (uniform temperature-time curve)

### Setting instructions

