

# 34.1

## W-SD Nail Anchor

Through-bolt mounting anchor for wood, metal and plate materials

Multiple attachment of non-load-bearing systems: cracked and uncracked concrete

**W-SD M6 and W-SD M6L**  
with hexagon nut + washer  
**galvanized steel**

**SDS collared bit**



### Evidence of performance

Approvals	
<b>M6, M6L, M8</b>	<b>M6L, M 8</b>
<b>European Technical Approval</b>	<b>Fire Resistance</b>
Multiple attachment of non load-bearing systems in concrete	Technical Report TR 020 R30-R120

### 1. Applications

- Can be used for multiple attachment of non-load-bearing systems in concrete, anchoring of light ceiling coverings and joist constructions
- **Multiple attachment of non-load-bearing systems:** Anchorage with European Technical Approval in cracked concrete (concrete tensile zone) and in uncracked concrete (concrete pressure zone)
- With European Technical Approval, the anchor can 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.
- The anchor may be used in anchorages primarily subject to resting or quasi-resting loads
- W-SD (galvanized steel) can be used in dry interior rooms
- Suited for the attachment of ceiling substructures with eyelet wire, vernier suspenders, perforated steel strips, suspended ceilings, sliding ceiling connections, roof battens, structural timber, fire protection plates, and so on.

### 2. Advantages

- Through-bolt mounting
- Low borehole depth (W-SD 6: 32 mm; W-SD 6L: 42 mm; W-SD 8: 43 mm)
- Low minimum component thickness ( $h_{min} = 80$  mm)
- Small borehole diameter
- Can be loaded immediately – no waiting times
- Easy setting
- Collared bits must be used. The anchors and collared bits form a precisely coordinated system. This system unit does not allow mounting errors and guarantees proper attachment.
- No mounting torque required

### 3. Properties

- Anchoring through friction engaging – distance-controlled spreading anchor
- Approval: **Multiple attachment of non-load-bearing systems in concrete:** European Technical Approval ETA-07/0138
- Dimensioned in accordance with the "Guideline for European Technical Approval (ETAG) of Metal Anchors for Use in Concrete", Appendix C, Dimensioning Method A
- Fire resistance (anchoring base: concrete C20/25 through C50/60): **R30, R60, R90, R120** (W-SD M6L, W-SD M8): Technical Report TR 020 "Evaluation of Anchorage in Concrete with Regard to Fire Resistance" (contained in ETA-07/0138)

### Setting instructions

