

W-SA TC TIMBER CONNECT SCREW ANCHOR

02.3

**Fastening of wooden thresholds:
Cracked and uncracked concrete**



W-SA TC

Galvanized steel
7.5 mm dia. x 100 mm
10 mm dia. x 130 mm
12 mm dia. x 160 mm

W-SA TC setting tool

7.5 mm dia.: TX 30
10 mm dia.: TX 45
12 mm dia.: TX 50

Proof of Performance

Approvals

General construction permit
for cracked and uncracked concrete



1. Areas of use

- Fastening of wooden thresholds in cracked and uncracked concrete
- With a general construction permit, the threshold 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 206-1:2001-07
- Anchorage with a general construction permit in cracked concrete (concrete tensile zone) and in uncracked concrete (concrete pressure zone)
- The threshold anchor may only be used for components in closed rooms, e.g. apartments, offices, schools, hospitals and sales rooms
- The threshold anchor may be used to connect the following types of wood:
 - **Solid wood made of coniferous wood of at least the sorting class S10 in accordance with DIN 4074-1**
 - **Laminated board wood in accordance with DIN 1052**
 - **Laminated beam wood of at least the sorting class S10 in accordance with a general construction permit**

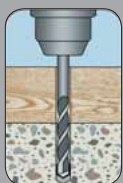
2. Advantages

- High transferrable tensile and transverse loads
- Concealed threshold fastening: Small screw head can be countersunk in wooden beam
- Several fastening heights are possible for each screw diameter (e.g. W-SA TC 12 x 160 : $t_{fix} = 80 \text{ mm to } 300 \text{ mm}$)
- Loads do not depend on thickness of attached parts
- Through-bolt mounting
- Fast, simple installation: The threshold anchor can be set with the ESS 1/2" tangential impact screwdriver, **Art. 0702 317 0**
- Can be loaded immediately - no waiting times
- Virtually no spreading effect, enabling compliance with small edge and axial spacings
- Complete, simple, fast removal

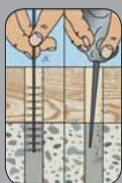
3. Properties

- Anchoring with positive locking
- When screwing the threshold anchor into the pre-drilled hole, the saw-tooth threads cut into the concrete
- General construction permit: Z-21.1-1917
- Dimensioning
Wood connection: Dimensioning in accordance with DIN 1052:2008-12
Concrete connection: Dimensioning in accordance with ETAG 001, Appendix C

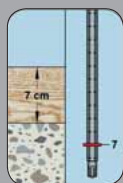
Setting instructions



Drill hole



Clean borehole



Adjust wood thickness [cm] on setting tool



Set screw anchor with tangential impact screwdriver



The screw anchor is correctly set when the marking [setting tool] is flush with the surface