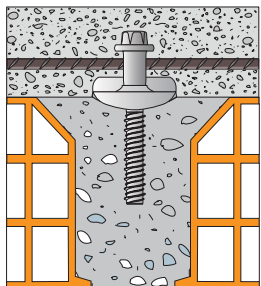


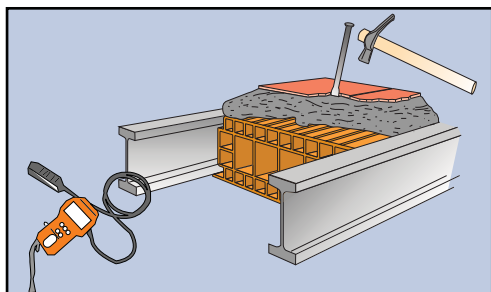
# INSTALLATION OF STUD CONNECTOR CTCEM ON CONCRETE SLAB



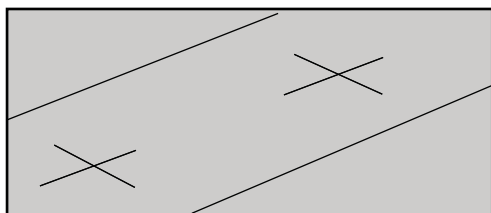
CT CEM stud connector with screw and toothed plate,  
base 60x50 mm, screw Ø 14 mm

Necessary equipment:

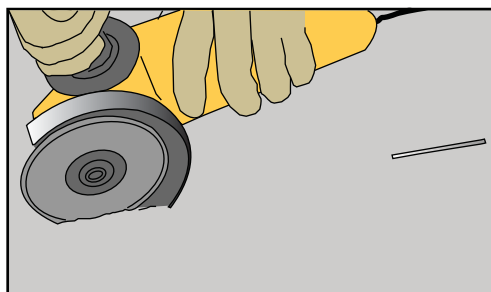
- Angle grinder (for incision) with abrasive disc for concrete Ø 115 mm
- Hammer with drill bit for concrete Ø 11 mm
- Electric impact wrench
- 15 mm hexagonal drive



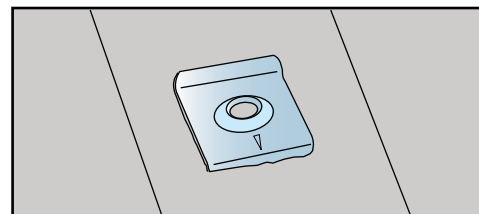
1 Remove the existing floor and expose the top of the concrete beams. When the floor has a concrete topping, locate the position of the beams



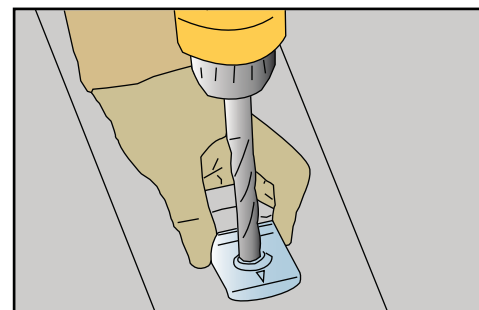
2 Connectors have to be fixed on concrete joists. Mark the positions where the connectors are to be fixed following the directions of the project.



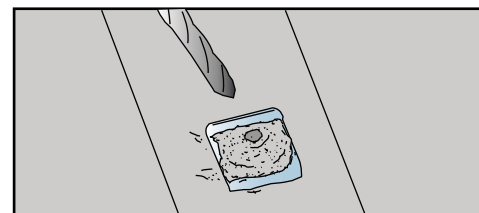
3 Make incisions in the concrete with an angle grinder to the following dimensions: width 4 mm, depth 5 mm, direction transverse to the direction of the beam



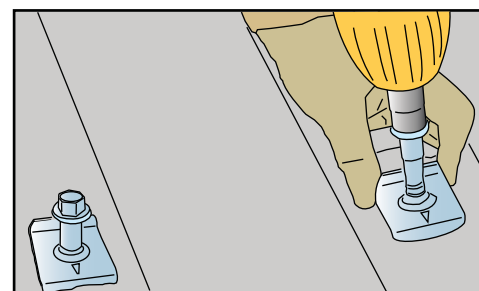
4 Place the base plate into the notch with the folded part facing downwards. The arrow on the top must be parallel to the beam, towards the central point.



5 Drill a hole with an 11 mm drill bit to a depth of 80 mm

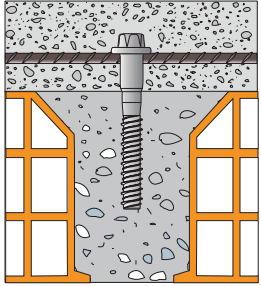


6 Remove the cement dust by blowing or sucking into the hole



7 Insert the screw in the hole and tighten it with the electric screwdriver. Do not overtighten the screw once it has reached the end of its course.

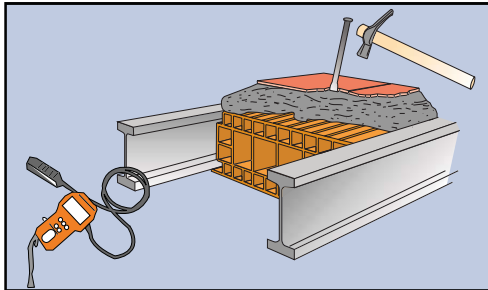
# INSTALLATION OF SCREW CONNECTOR VCEM-E ON CONCRETE SLAB



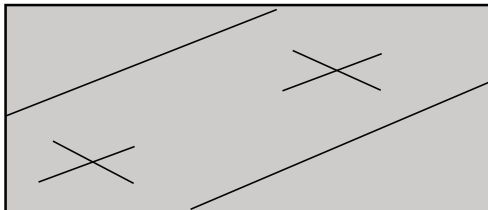
Screw connector V CEM-E - shank  $\varnothing$  14 mm - screw thread  $\varnothing$  12 mm

Necessary equipment:

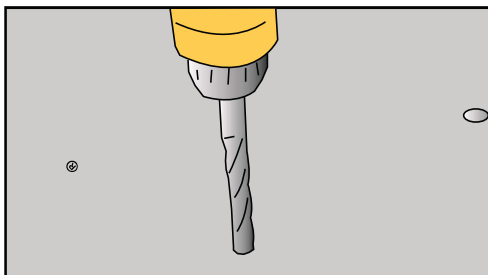
- Percussion drill
- Drill bit for concrete  $\varnothing$  10 mm
- Electric impact wrench (minimum torque 50 Nm, maximum torque 250 Nm)
- 15 mm hexagonal drive



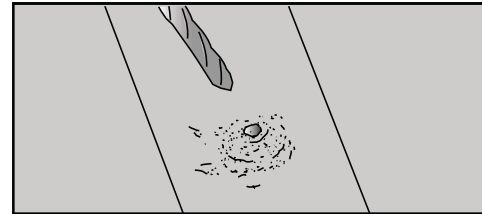
1 Remove the existing floor and expose the top of the concrete beams.  
When the floor has a concrete topping, locate the position of the beams



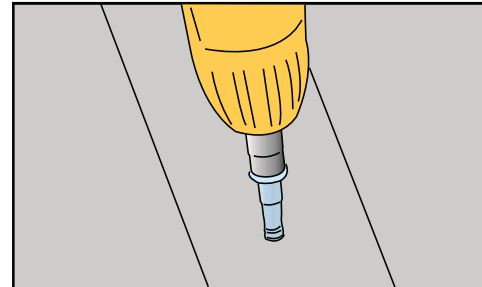
2 Connectors have to be fixed on concrete joists.  
Mark the positions where the connectors are to be fixed following the directions of the project.



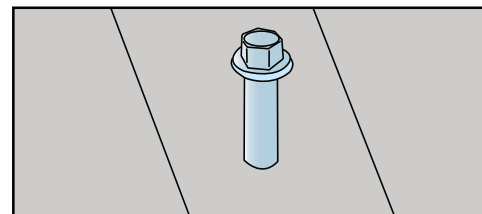
3 Drill a hole with a 10 mm drill bit to a depth of 85 mm.  
If the hole cannot be used (due to the presence of steel bars), drill a new hole at a distance of twice the depth of the hole that cannot be used. Alternatively, it is possible to drill a hole at a shorter distance as long as the abandoned hole is filled with high-strength mortar and positioned towards the centre of the beam.



4 Remove cement dust by blowing or vacuuming into the hole.  
Roughen the surface if prescribed by the designer.  
Roughly clean the surface of debris and sand.



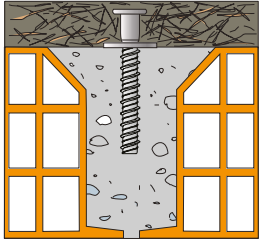
5 Insert the screw in the hole and tighten it with an electric impact wrench (or screwdriver with end stop clutch).  
Minimum tightening torque 50 Nm.  
Do not continue tightening after the screw has completely penetrated the hole.



6 Connector fixed in position.

Installation will be carried out by personnel under the supervision of the technical site manager.

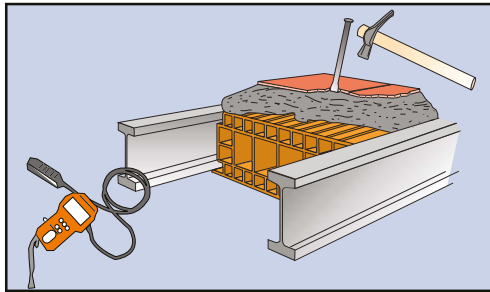
# INSTALLATION OF STUD CONNECTOR MINI CEM-E ON CONCRETE SLAB



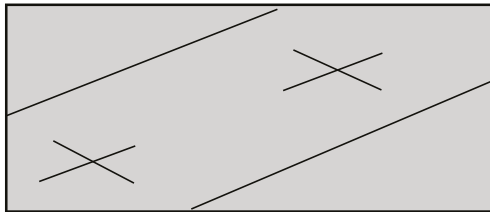
Connector MINI CEM-E - shank  $\varnothing$  10 mm - screw thread  $\varnothing$  10 mm

Necessary equipment:

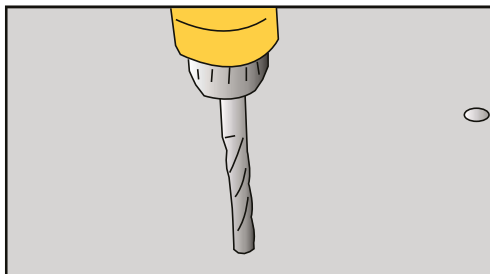
- Percussion drill
- Hammer with drill bit for concrete  $\varnothing$  8 mm
- Electric impact wrench (minimum torque 50 Nm, maximum torque 250 Nm)
- Torx T40 drive



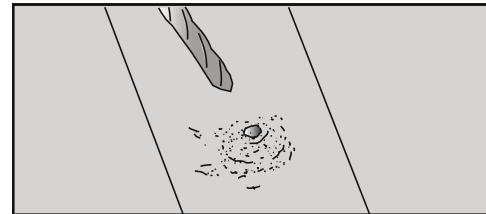
1 Remove the existing floor and expose the top of the concrete beams.  
When the floor has a concrete topping, locate the position of the beams



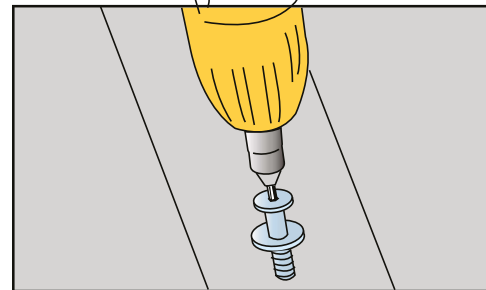
2 Connectors have to be fixed on concrete joists.  
Mark the positions where the connectors are to be fixed following the directions of the project.



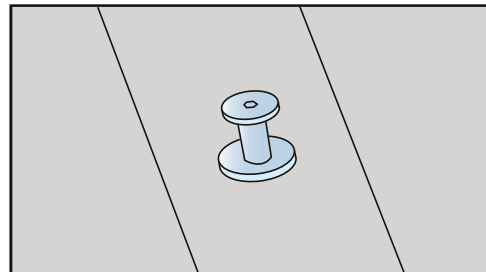
3 Drill a hole with a 8 mm drill bit to a depth of 70 mm.  
If the hole cannot be used (due to the presence of steel bars), drill a new hole at a distance of twice the depth of the hole that cannot be used. Alternatively, it is possible to drill a hole at a shorter distance as long as the abandoned hole is filled with high-strength mortar and positioned towards the centre of the beam.



4 Remove cement dust by blowing or vacuuming into the hole.  
Roughen the surface if prescribed by the designer.  
Roughly clean the surface of debris and sand.



5 Insert the screw in the hole and tighten it with an electric impact wrench (or screwdriver with end stop clutch).  
Minimum tightening torque 50 Nm.  
Do not continue tightening after the screw has completely penetrated the hole.



6 Connector fixed in position.

Installation will be carried out by personnel under the supervision of the technical site manager.