

4 - Kanten

Double slide rail corner shoring installation instructions

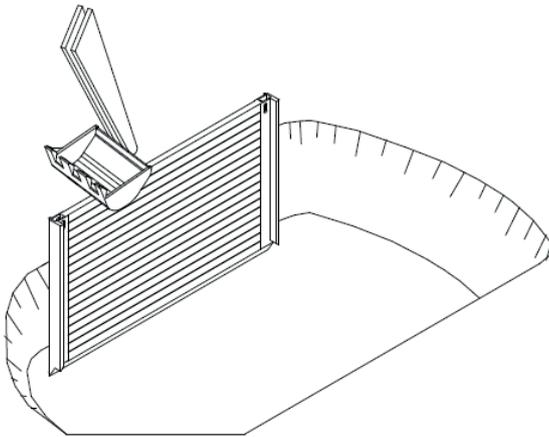
All safety instructions in the chapter “Occupational safety and general information in accordance with DIN EN 13331-1/-2” must be observed before the beginning of works (see chapter 2 Occupational safety and general information in accordance with DIN EN 13331-1/-2 on page 3)!

1. General

Corner rail shoring is a special shoring solution for shaft structures, as well as for trench shoring with combined trench end fields. Implementation as shaft shoring removes the need for special bracing systems. All forces are then absorbed by the shoring panels. It can be implemented with the appropriate supports as single rail or double slide rail shoring.

Realization of rectangular trenches in a variety of sizes is possible through the use of different panel lengths in pairs.

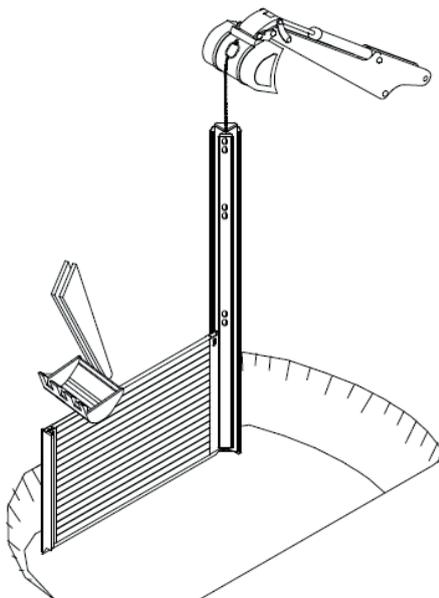
2. Install the outside base panels



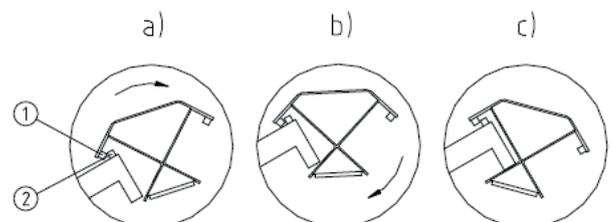
After measuring of the trench, initial excavation for the shaft is done, depending on the panel lengths used, according to the instructions of the construction supervisor and the applicable DIN standards.

The first shoring panel (outside base panel) is positioned and fixed in the trench using a hoist and suitable sling (GS approval).

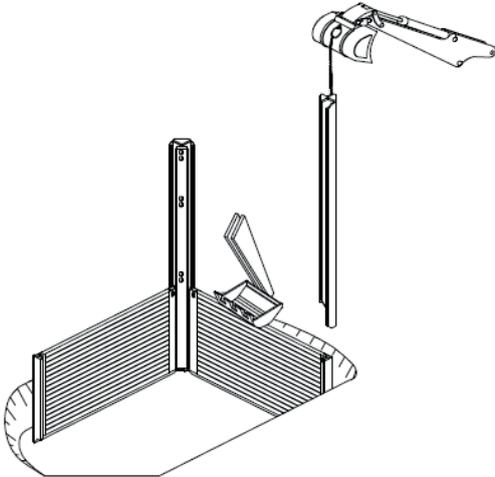
3. Install the corner rail



The corner rail can be swiveled in with the help of a second hoist (see images a, b, c) or pushed over from above. Care must be taken here to ensure that the rear square of the corner rail (1) catches behind the square of the shoring panel (2).

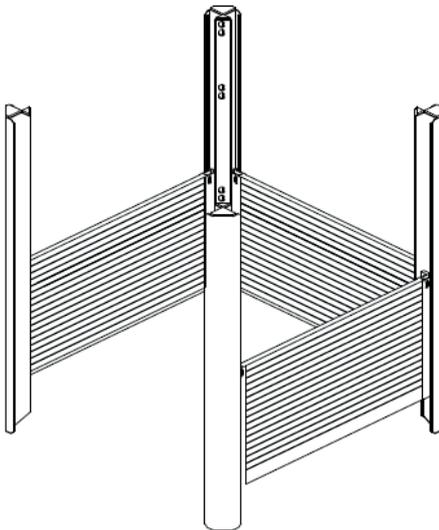


4. Install the other elements



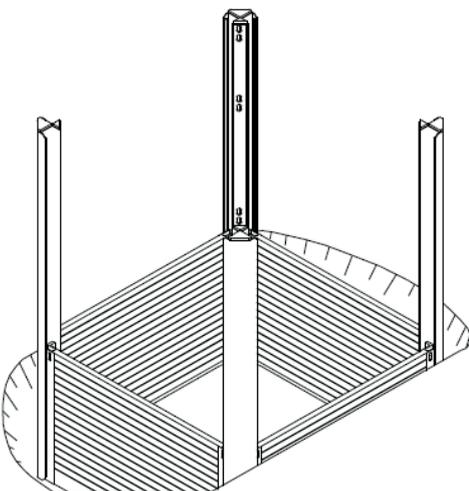
All other elements should be installed in the manner described above.

5. Align the shoring



Alignment of the shoring is required so that the last shoring wall can also be positioned without any problems. To this end, the clear distance between the shoring panels at both ends of the panels on the one hand and the measurement across the two diagonal axes of the shoring field on the other must match.

6. Lower the shoring

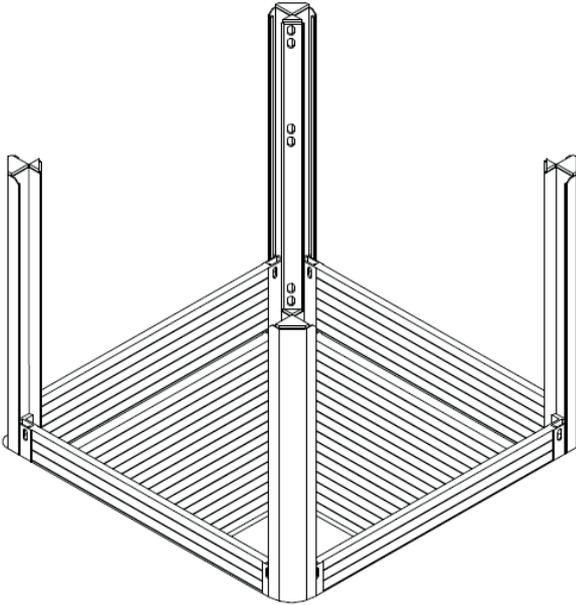


Once the fourth base panel has been positioned, the angularity of the shoring must be checked again. The cavity between the soil and the shoring panel must then be backfilled and compacted.

Before the actual lowering process, the soil underneath the shoring panels and supports is excavated according to the instructions of the construction supervisor. The vertical supports and shoring panels are pressed down alternately, whereby pressure beams should be used in particular for the shoring panels.

All shoring components must be introduced using pressure, and never using impacts or pounding.

7. Install the inside base panels



The inside base panels are swiveled between the guide frame in accordance with image a), guided into the U-shaped guide rails on the outside panels and lowered to the bottom of the trench. Further trench excavation is done through lowering of the inside base panels and the guide supports

