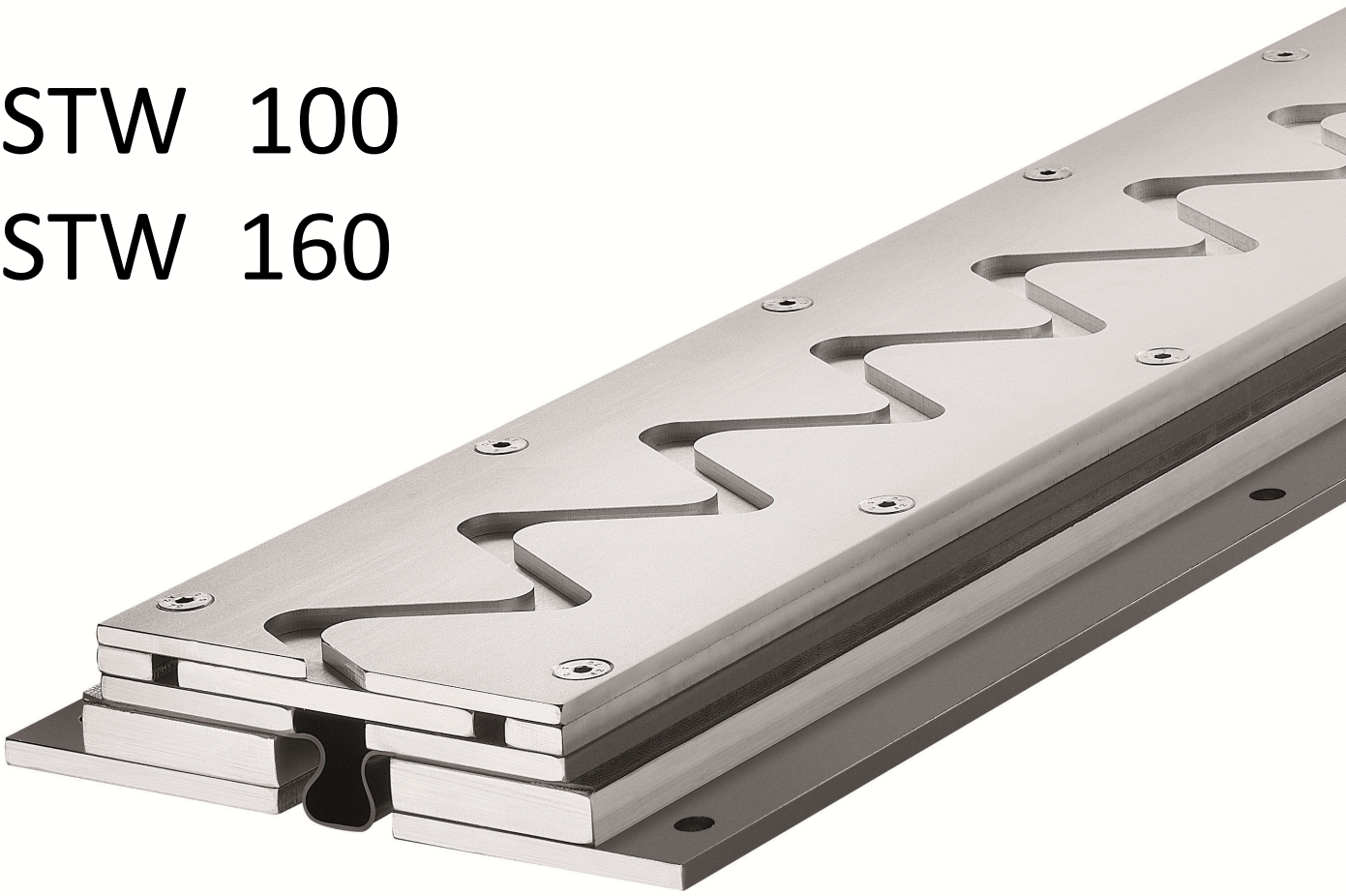
Installation instructions

STW 100
STW 160



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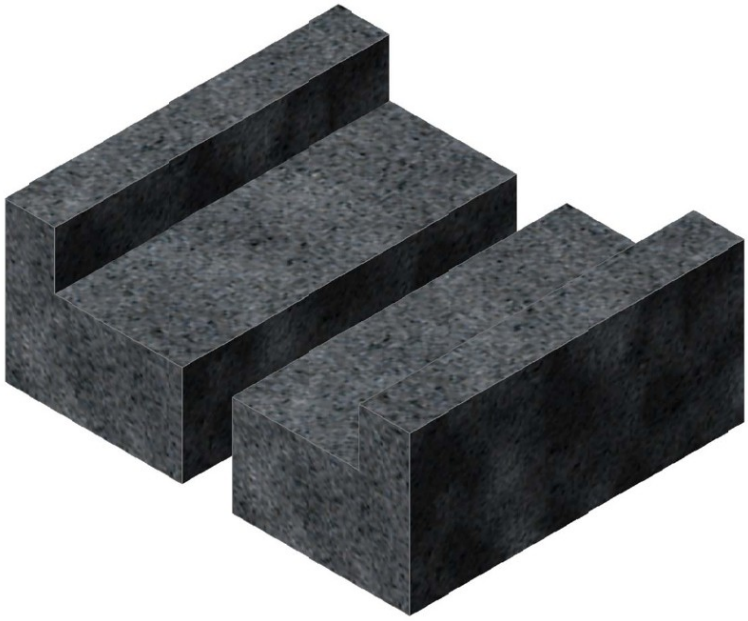
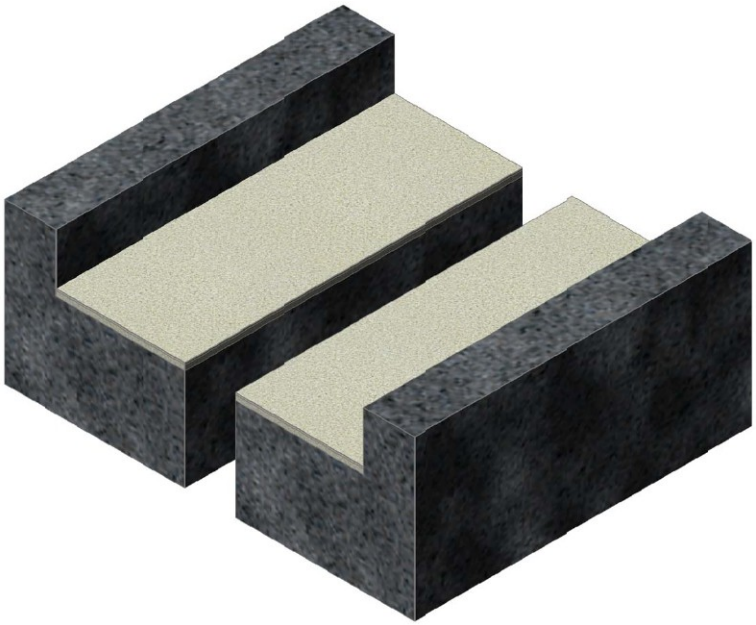
1. Preparing of surface

The blockout / recess need to be approx. 300 mm wide. It has to be clean, dry and dust free. It has to be ensured that the blockout / recess can absorb the needed load-bearing capacity. Clean the profile with acetone.



2. Preparing of the levelling mortar

To compensate for unevenness in the sub-base, an epoxy strip (approx. 100 mm wide) must be laid on the sub-base on both sides of the joint.

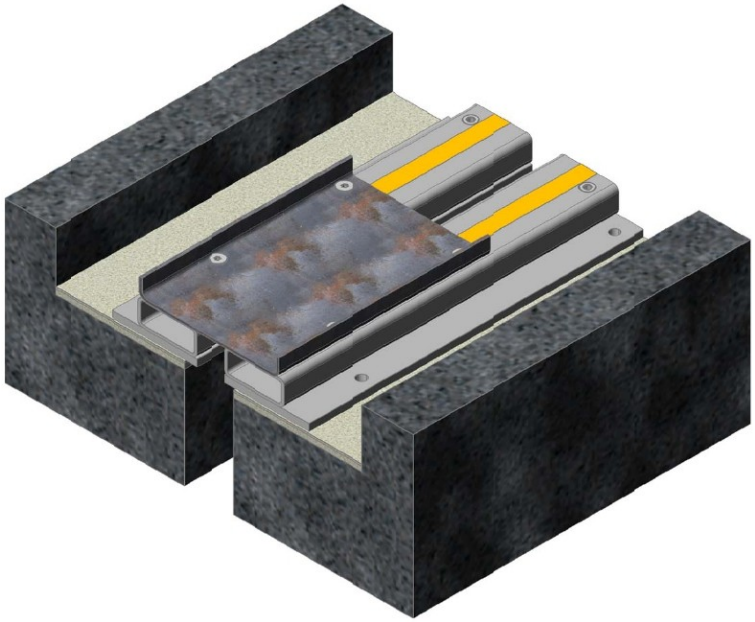


3. Levelling of the profile

Place the profile into the epoxy whilst still wet and tap gently into place until the desired level is achieved. The top edge of the spacer is the level of the finished surface.

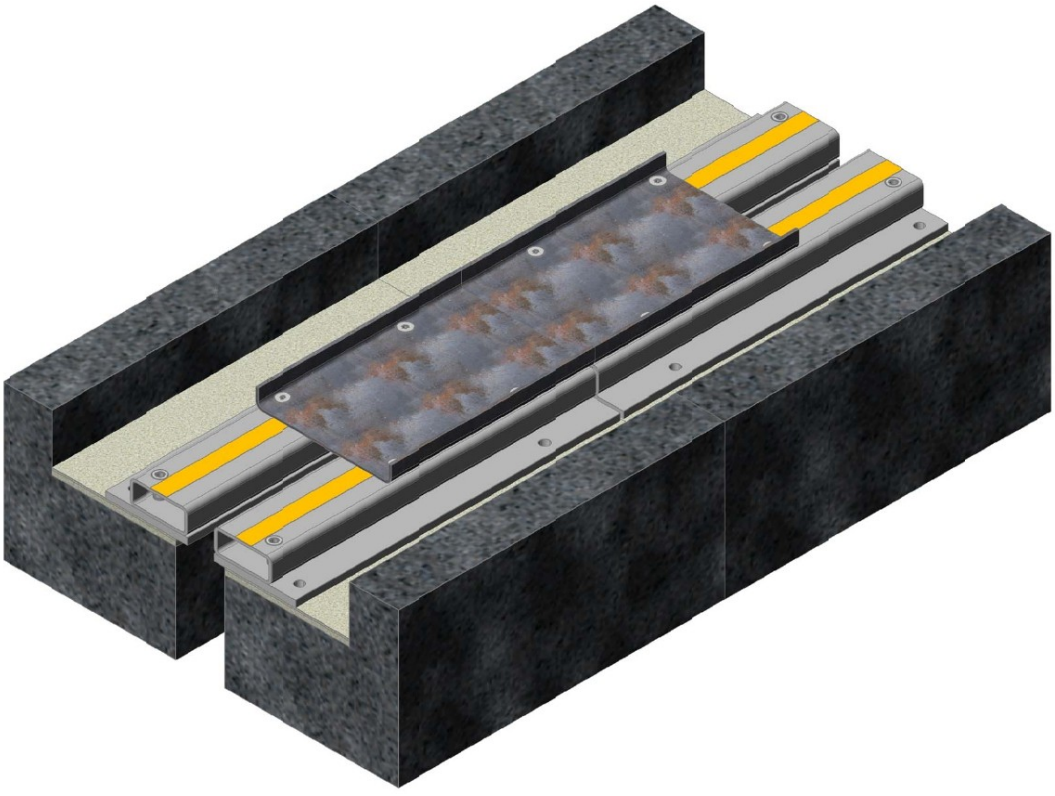
Care must be taken that the profile is fully embedded and that there is no hollow space between them and the sub-base.

To achieve the requested resistance to pressure and a positive bond to the building, it is strictly necessary to use epoxy mortar for the bed beneath the profile. To avoid that the epoxy mortar is pressed into the joint a joint filling material need to be used.



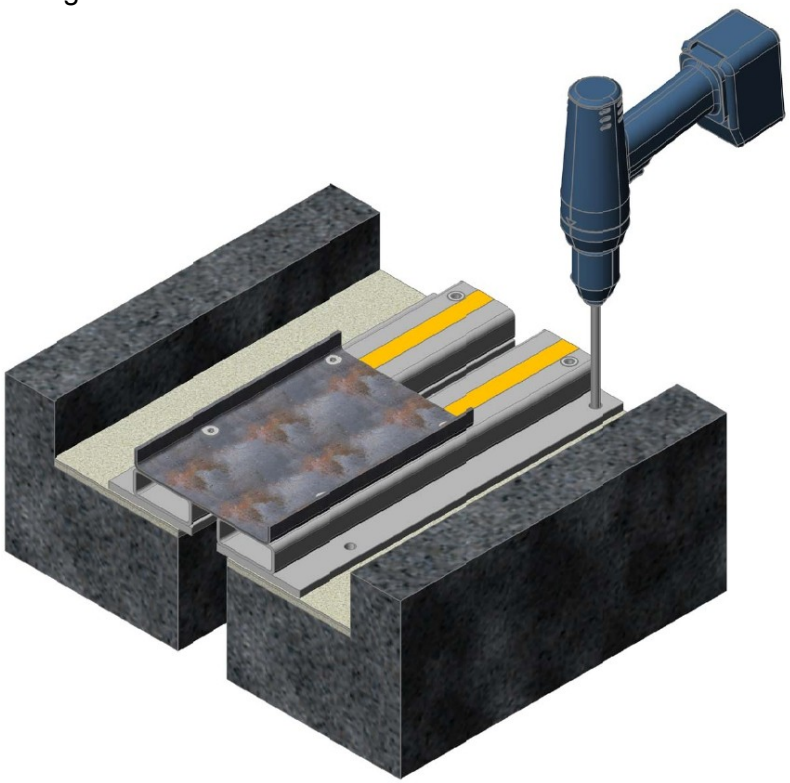
4. Connection of single length (only if applicable)

Connect the next single length to the installed length. It has to be ensured that the spacer has the same level and and same line as the installed single length.



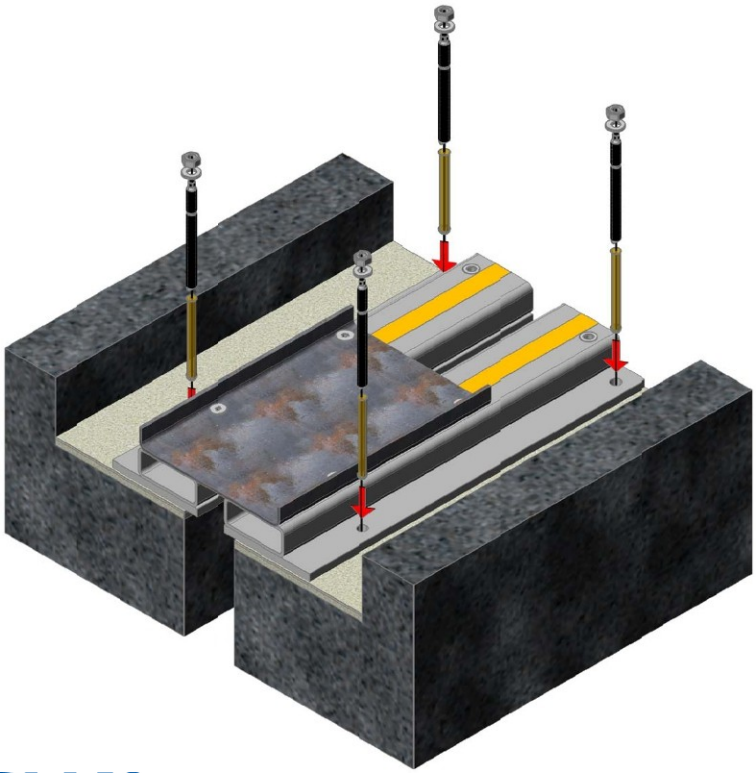
5. Holes for Fixing

After the epoxy has cured, the profile needs to be fixed to the sub-base with suitable screws (e.g. chemical anchors M8 x 110 mm, can be supplied at extra charge). It is essential that the holes are absolutely vertical. The holes need to be cleaned and fixed according to the instructions of the screw manufacturer.
Fixings need to be made at distances of max. 300 mm.



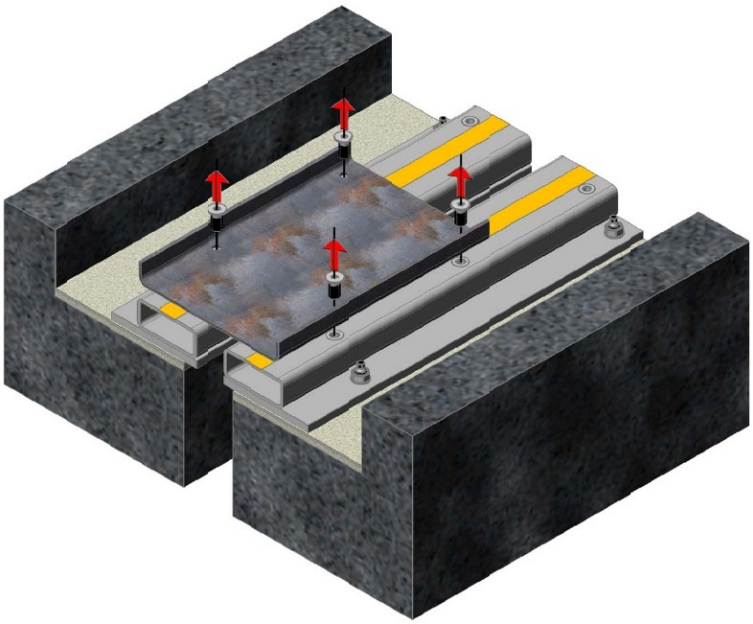
6. Fixing

Tighten the screws according to the instructions of the screw manufacturer.



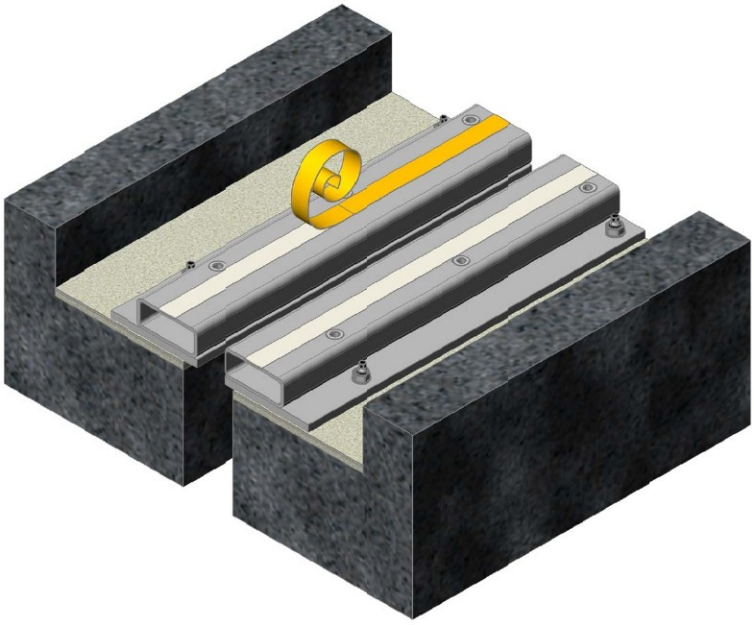
7. Removing of spacer

Immediately after fixing of the sub-construction, the mounted spacer (distance pieces) need to be removed.



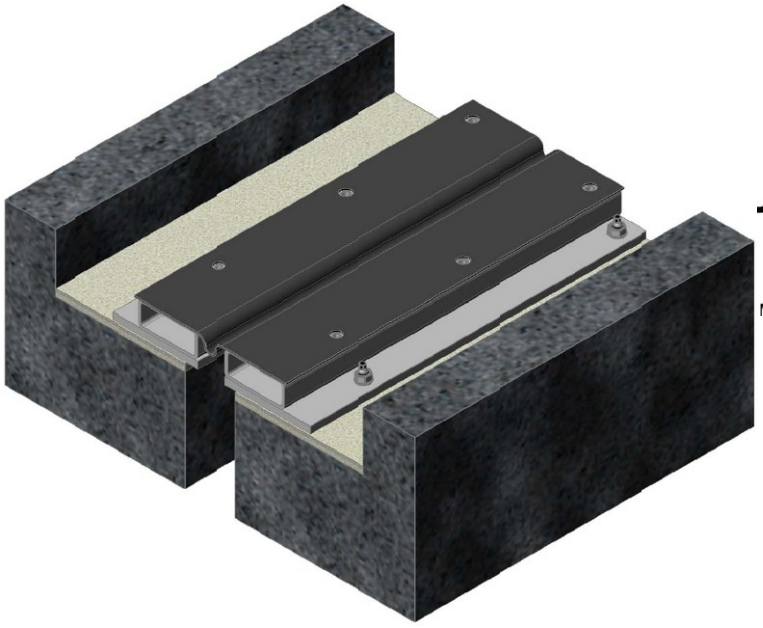
8. Preparing for application of sealing sheets

The profiles are supplied with an adhesive tape, which shall help to adjust the sealing sheet during application.
Remove the protection cover of the adhesive tape.

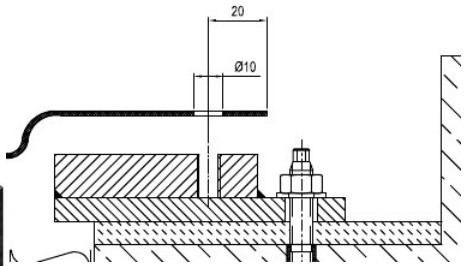


9. Application of the sealing sheet

The sealing sheets has to be installed in continuous length without any interruption and with up-/downstands at each end to ensure 100% watertightness.
In case a measurement was done, the whole sealing sheet will be supplied prefabricated, including holes, necessary intersections, transitions, etc.
In case the sealing sheet will not be supplied prefabricated, the sealing sheet will be supplied in rolls of max. length. Holes in the sub-construction has to be transferred and punched to the sealing sheet (Please see sketch for details).
It is much important that the holes are exactly at the position where the holes in the sub-construction are.

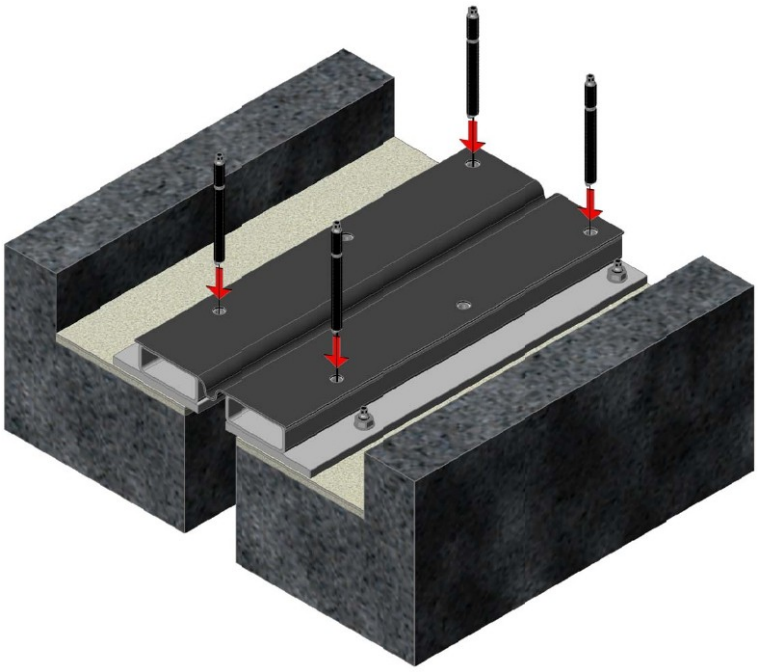


Details for holes in sealing sheet



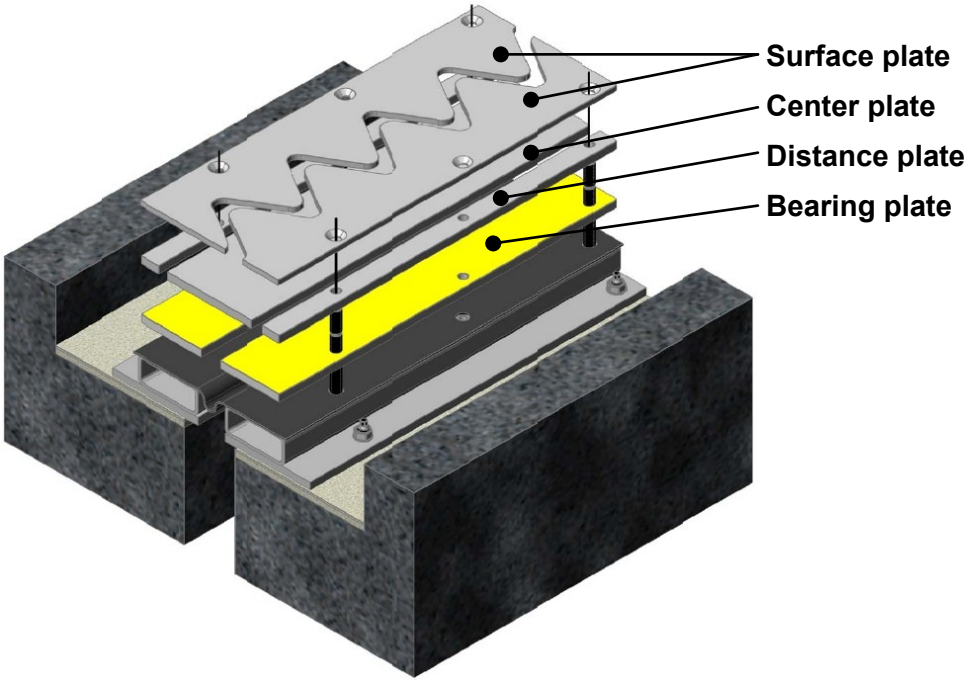
10. Preparing of application of the upper parts

To ensure a proper fixing of the upper parts we recommend to use threaded rods (or the rods of the chemical anchors) M8 as adjusting device, which has to be screwed in at either end of a single length.



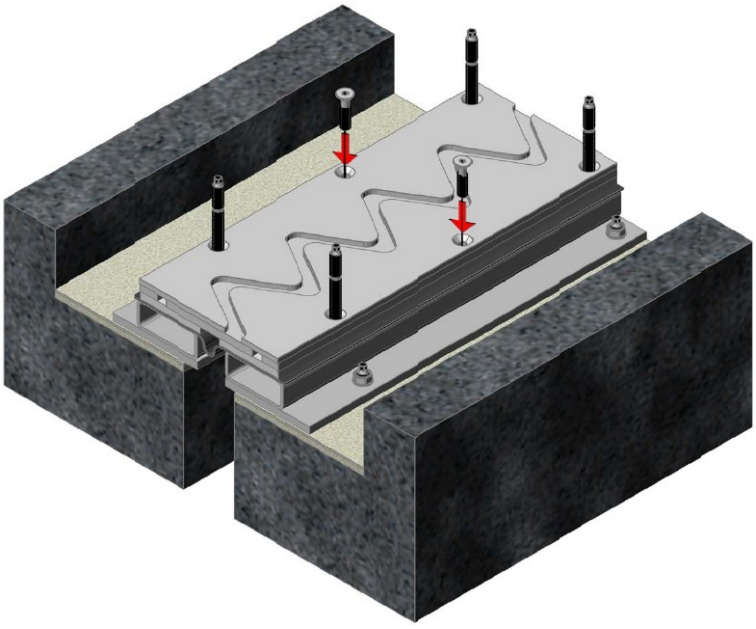
11. Application of upper parts

The upper parts has to be applied in the following order:
- Bearing plate
- Distance plate
- Center plate
- Surface plate



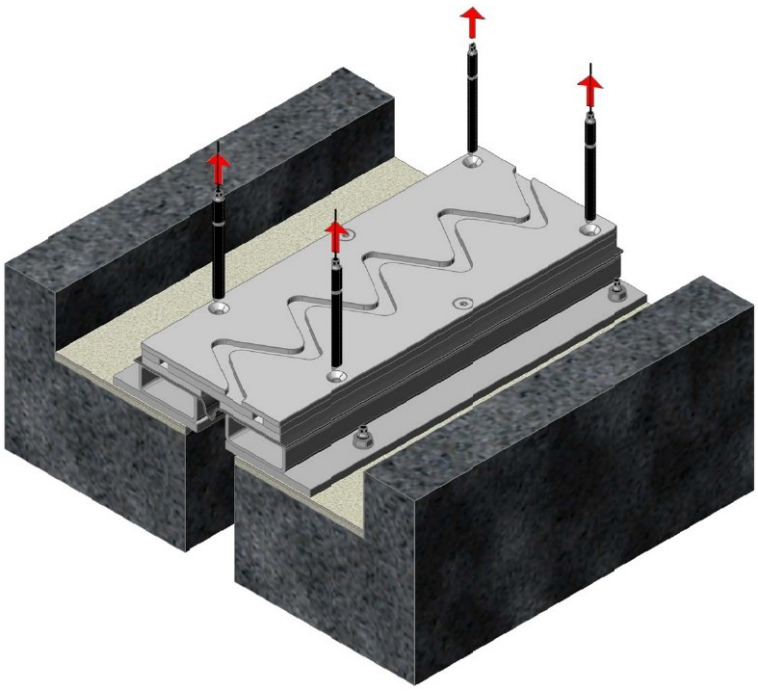
12. Fixing of upper parts

After application of the upper parts it has to be fixed with the supplied fixing screws M 8.
The screws has to be fixed by means of a torque wrench with a torque of 15 Nm.
Higher torque is not allowed.



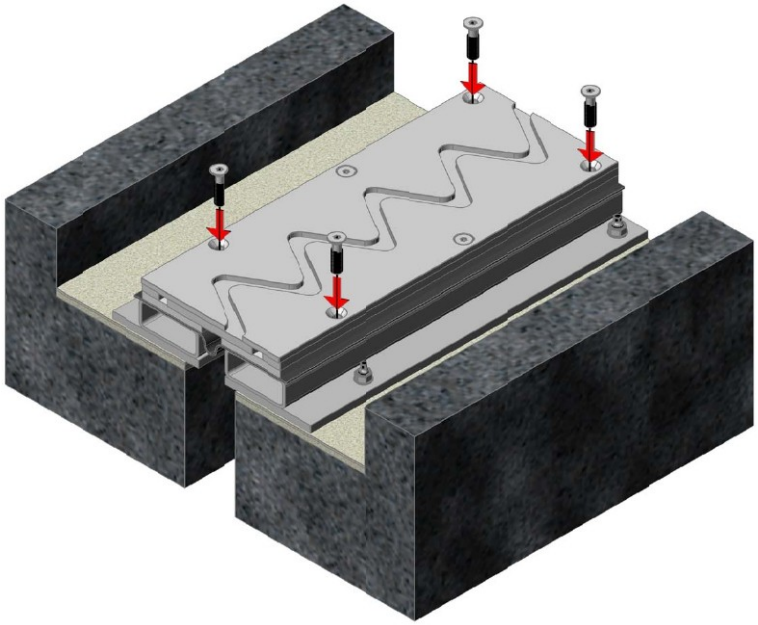
13. Removing of the adjusting device

The threaded rods (or the rods of the chemical anchors) M8 has to be removed.



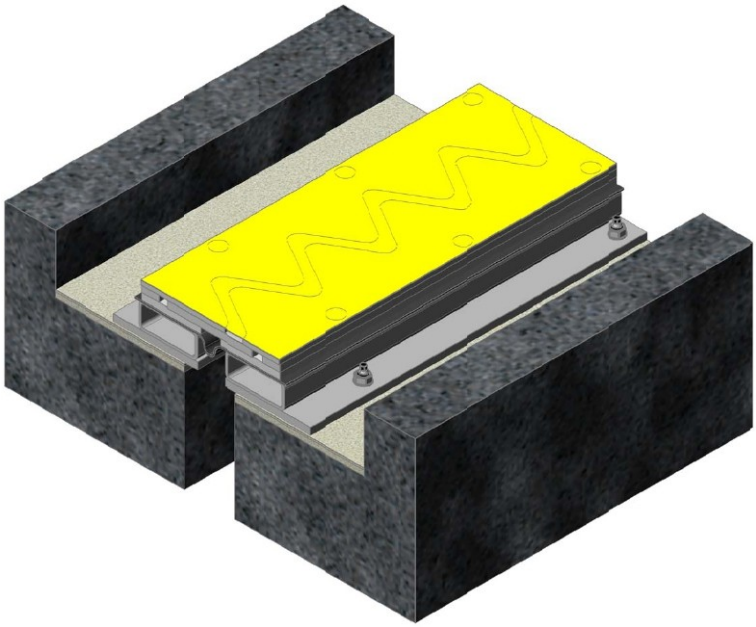
14. Fixing of upper parts (Remaining holes)

After removing of the threaded rods (or the rods of the chemical anchors) M8, the remaining holes has to be fixed with the supplied fixing screws M 8.
The screws has to be fixed by means of a torque wrench with a torque of 15 Nm.
Higher torque is not allowed.



15. Protection tape

A protection tape are part of the supply, The protection tape has to be installed, after the profile is complety installed.

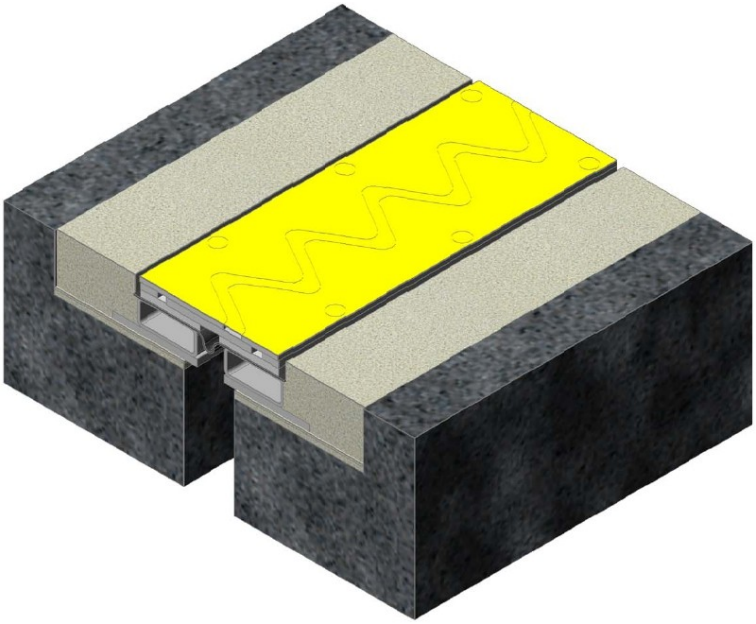


16. Filling of the blockout / recess

The blockout / recess need to be filled with an epoxy mortar (high compression strength and contraction free).

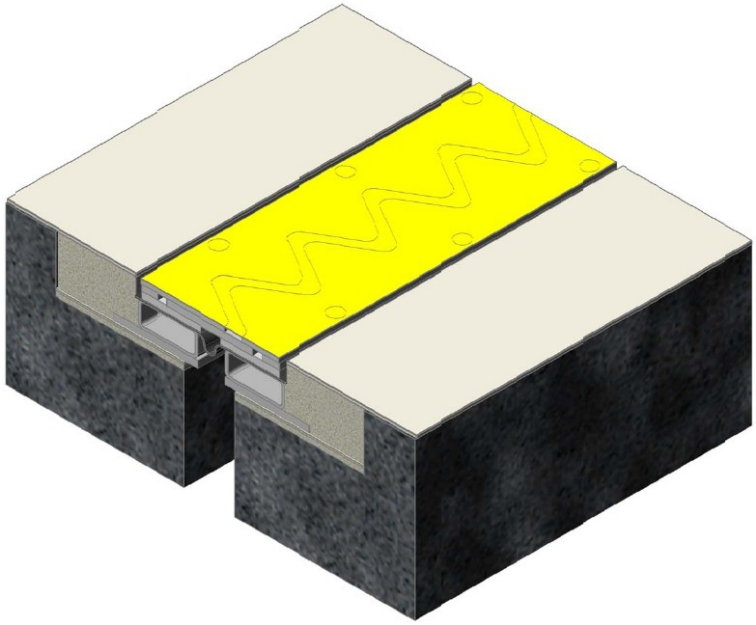
A gap of approx. 8-10 mm width on either side of the profile has to leave open as connection joint.

The sealing sheet has to end in the open connection joint. This is much important for the watertightness of the whole system.



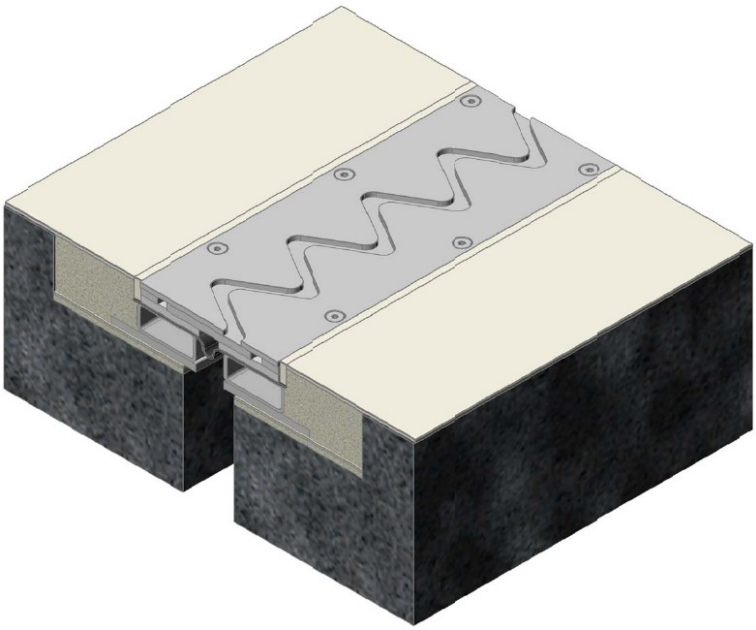
17. Applying of the coating system

The coating system will be applied.
If a suitable coating system will be used it is possible to use the flexible layer of the coating system to fill the connection joint.
(As an alternative please see step 18).



18. Filling of connection joint (only if applicable)

The connection joint has to be filled with a suitable sealant, e.g. Polyurethane (Sikaflex Pro 3WF) to ensure a watertight connection to the coating system.



19. Removing of protection tape

The protection tape have to be removed when the site is finished.