

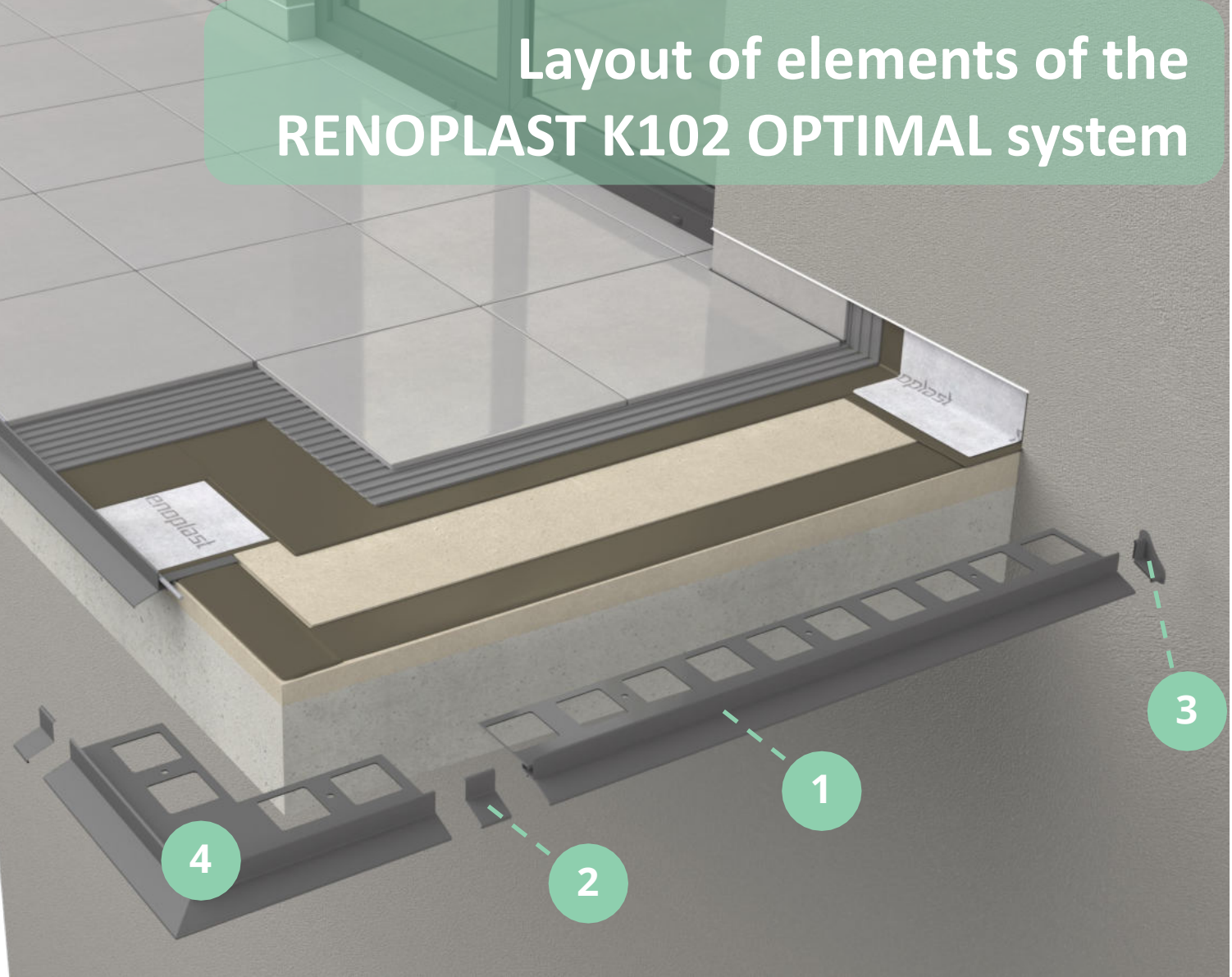
Brief instructions sheet on how to build a balcony/terrace using the

## **RENOPLAST K102 OPTIMAL**

system with ceramic tile flooring  
installed on a mineral-based adhesive mortar



# Layout of elements of the RENOPLAST K102 OPTIMAL system



**Straight profile K102**  
length 200 cm



1

**Connector**  
LK102



2

**OPK102 End stops**  
(left/right)

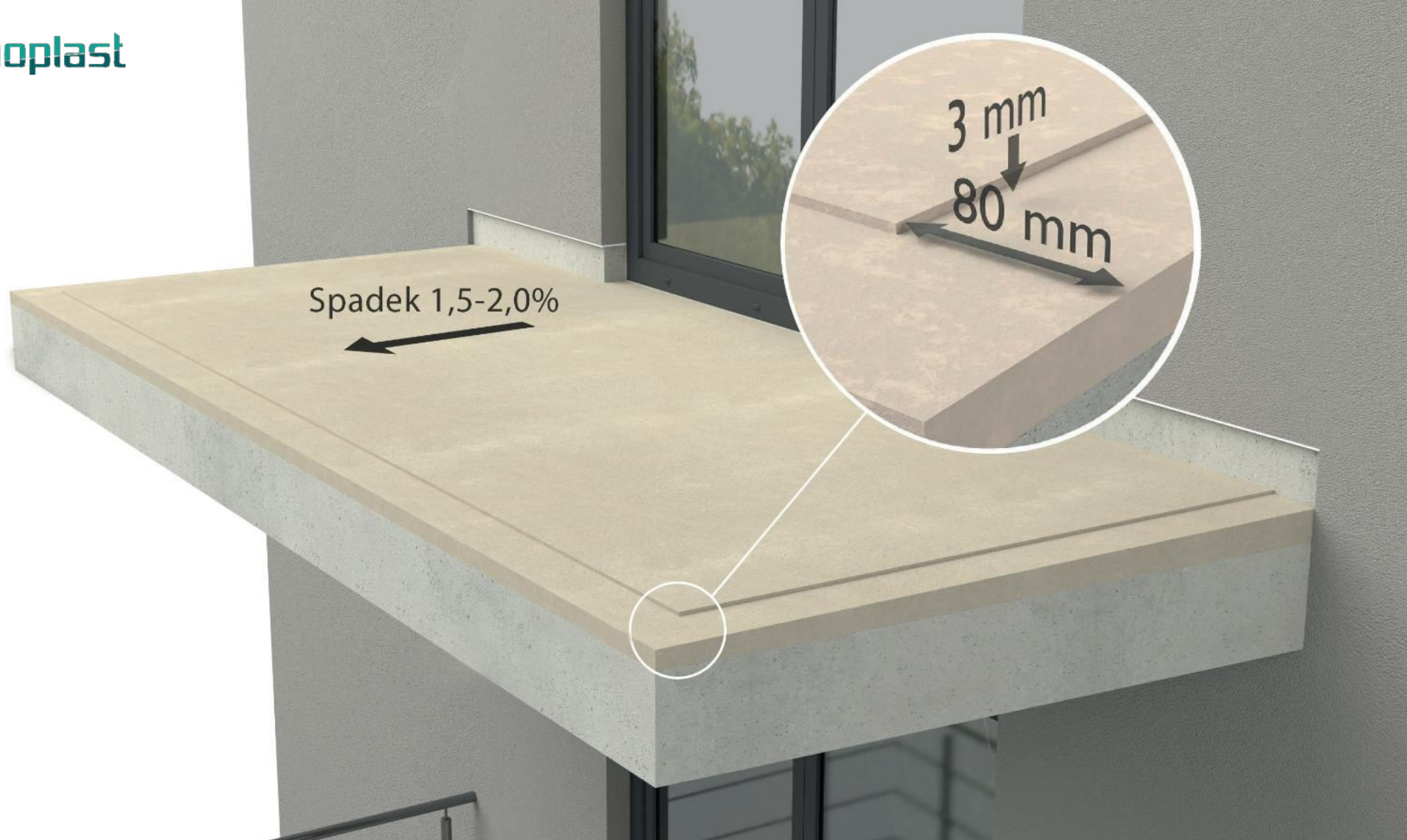


3

**NZ K102/90**  
Outside corner 90°

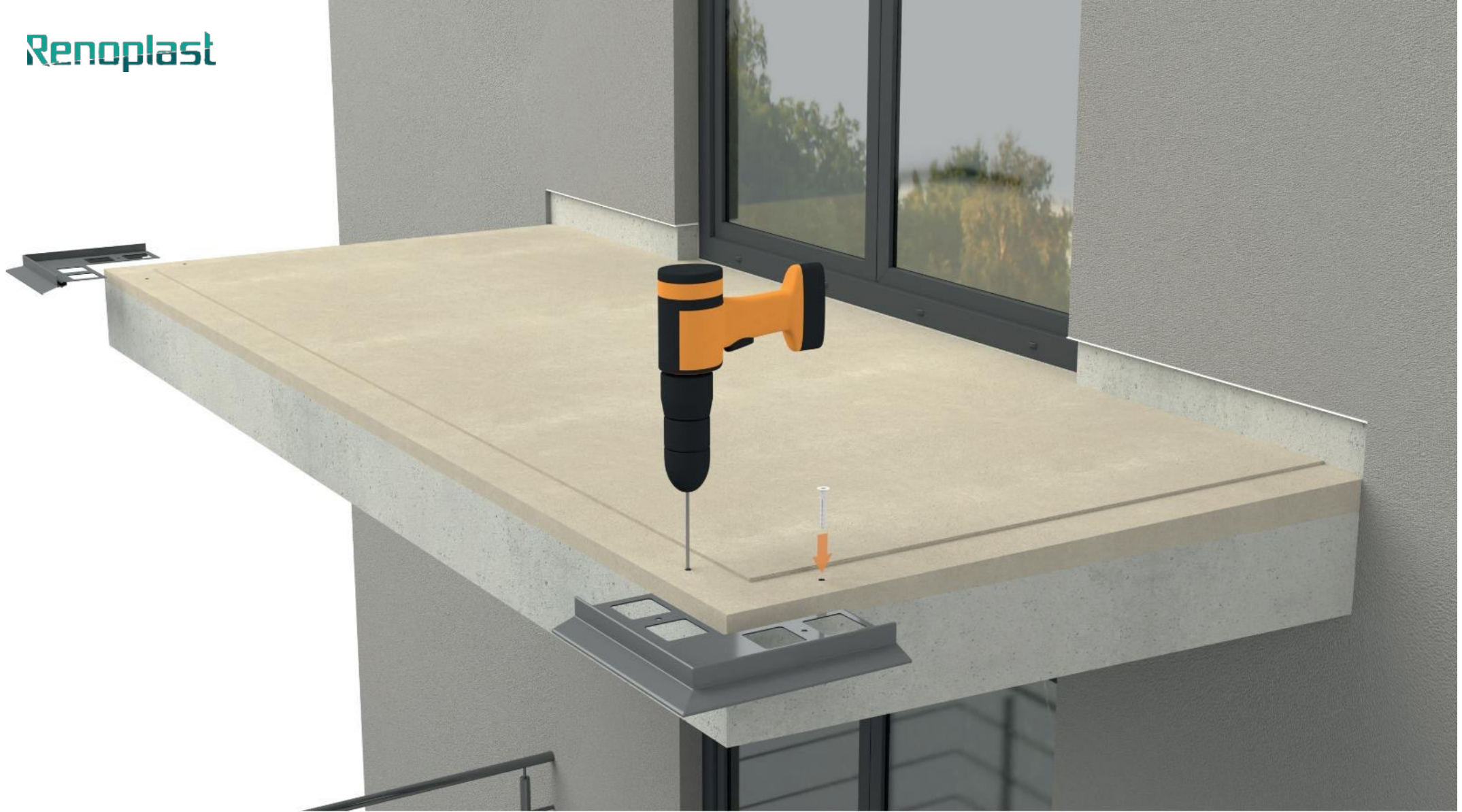


4



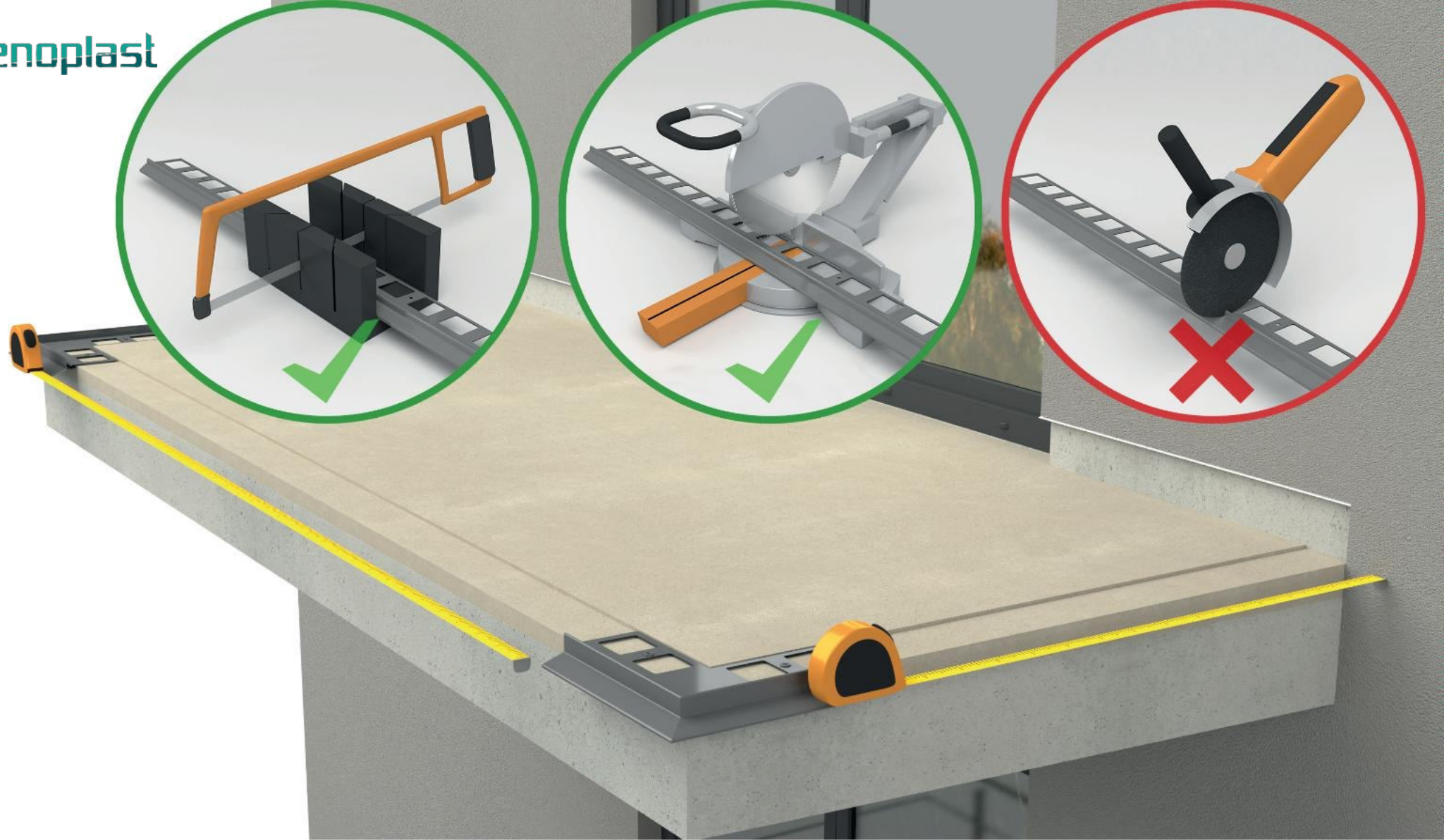
### Balcony/terrace floor bases

The base should be even and load-bearing with a slope of 1.5 - 2 % towards the front edge. It is recommended that along the edge underlay on the width of the installed profile of 80 mm, lower the underlay to a depth of about 3 mm so that the installed profile was flush with the plane of the base.



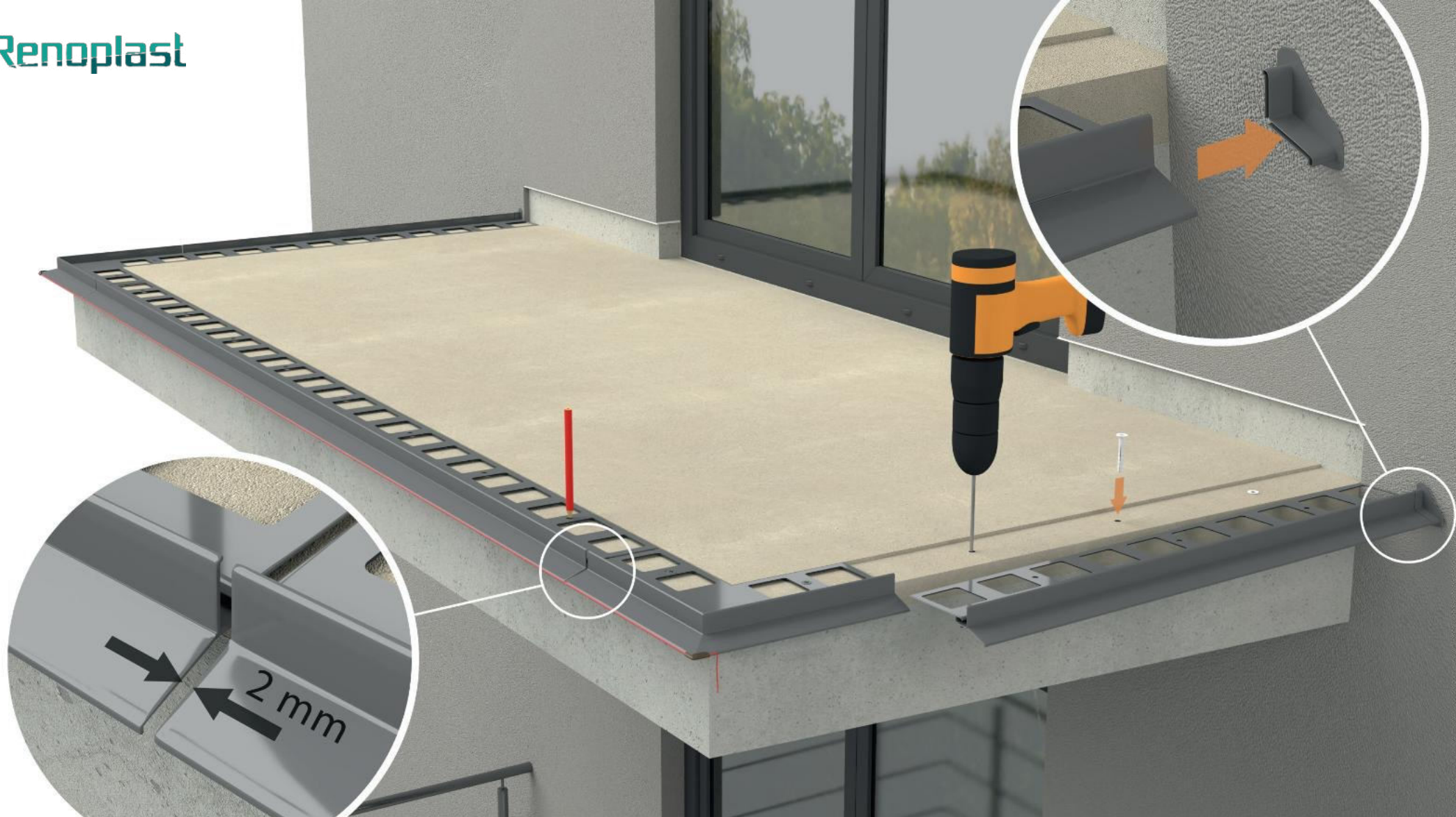
### **Pre-assembly of NZ K102/90 corners**

We start the work with the initial fixing of the corners, using expansion bolts (expansion bolts included with the corner in the kit).



## Preparation of straight profiles K102

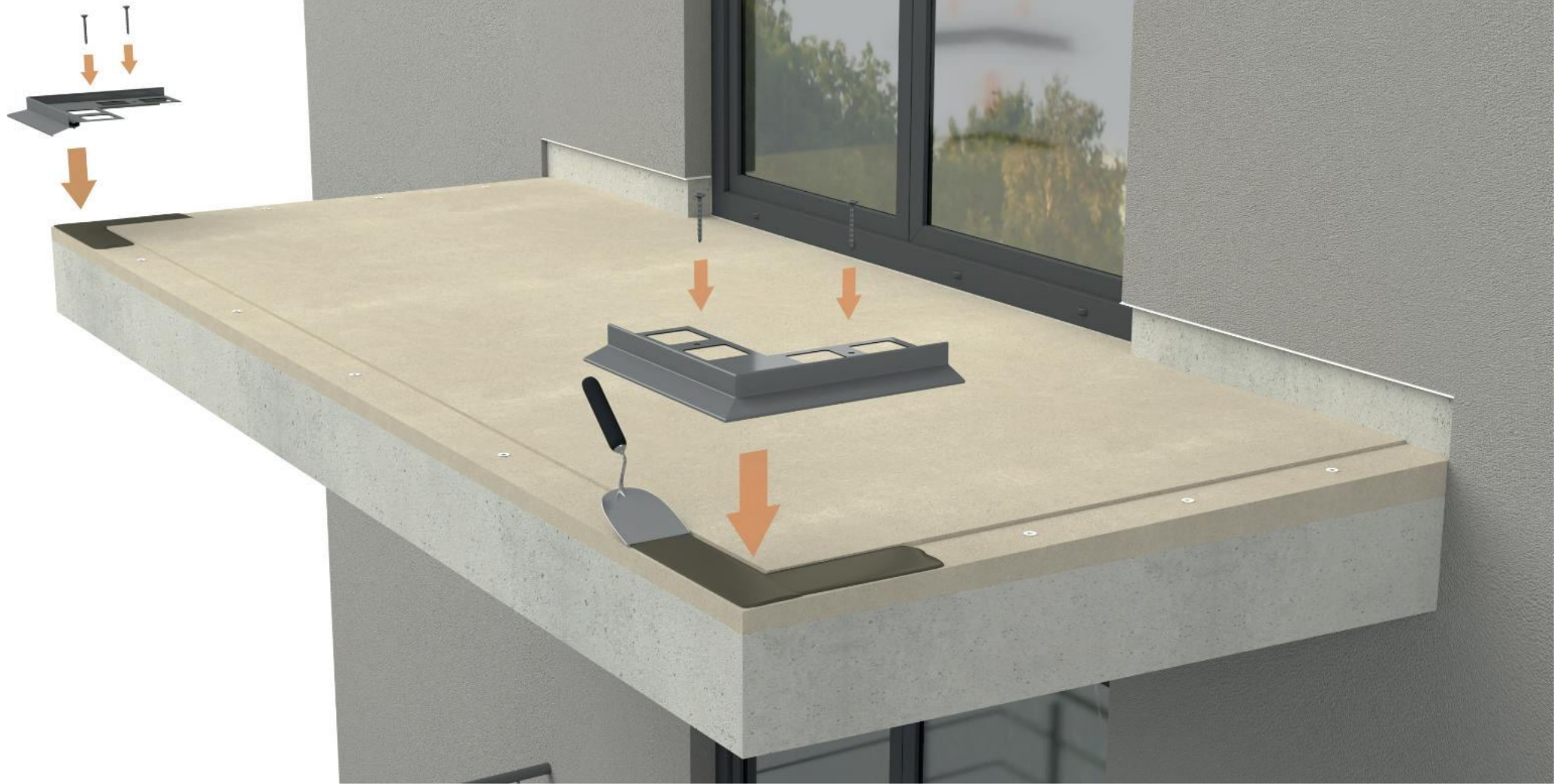
The next step is to measure the straight sections to prepare (cut) the straight profiles. The straight sections must be prepared in such a way as to leave expansion gaps of approx. 2 mm at the joints and a space of approx. 2 mm at the wall for the **OPK102** end stop. The profiles should be cut with a hand-held metal saw or a mechanical saw with a suitable blade for cutting aluminium. Cutting with other tools may cause damage the paintwork, which is not acceptable.



### Making the installation holes in the subfloor

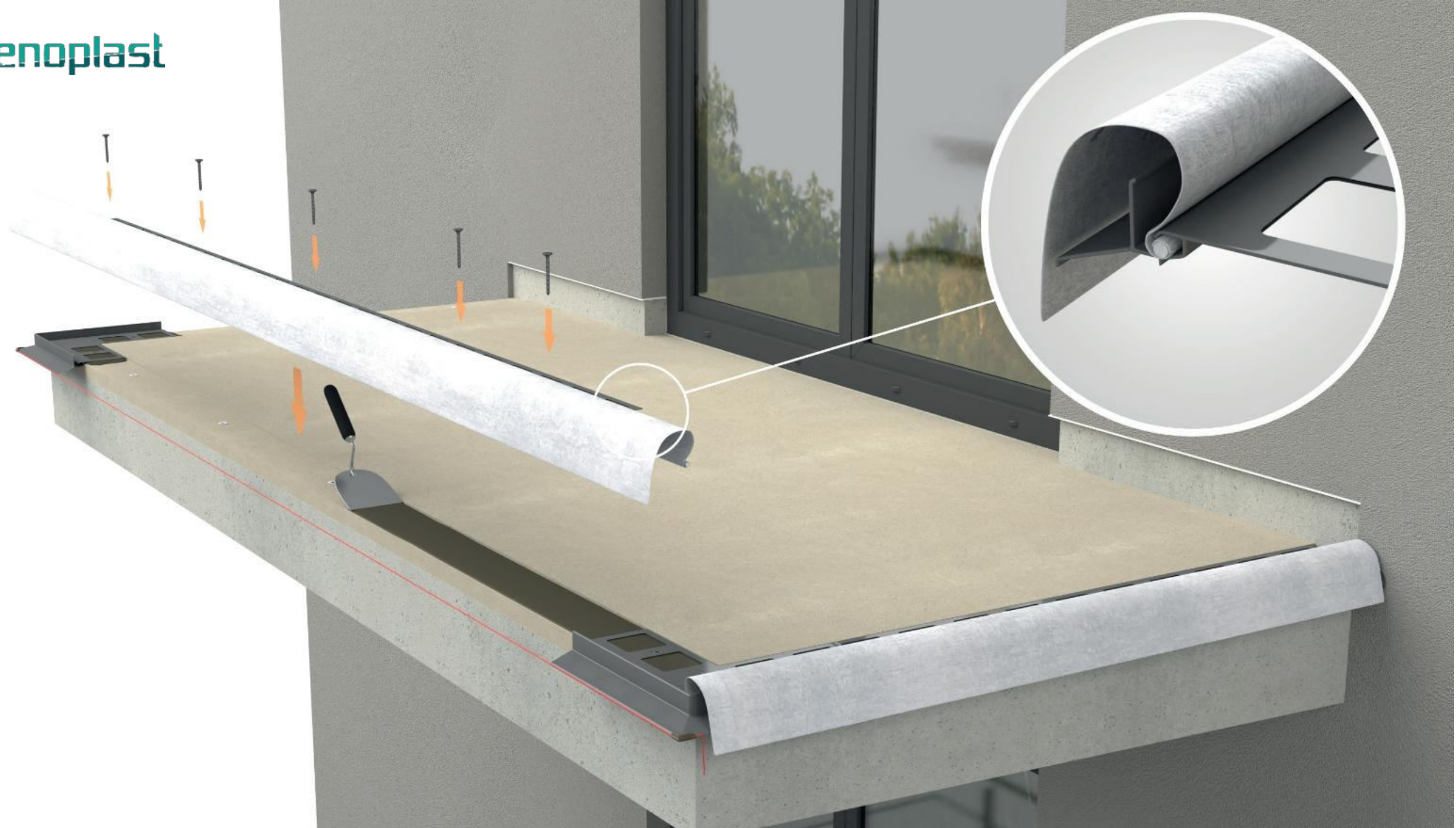
Place the **K102** straight profiles between the **NZ K102/90** corners and mark the locations for the installation holes on the subfloor. Remove the profiles, then drill the installation holes.

Renoplast



### Installation of NZ K102/90 corners

The corners are placed on a flexible mass (e.g. polyurethane), and then mechanically fastened with the help of pre-installed expansion bolts.



## Installation of straight K102 profiles

Before assembling straight profiles and into the previously installed corners, insert the tape **CLEVER** into the specially created gap, with lengths ensuring 10 cm overlap at the joints. We embed straight profiles in the same way as corners. Using a string and a spirit level stretched between the corners, we take care of their even assembly.





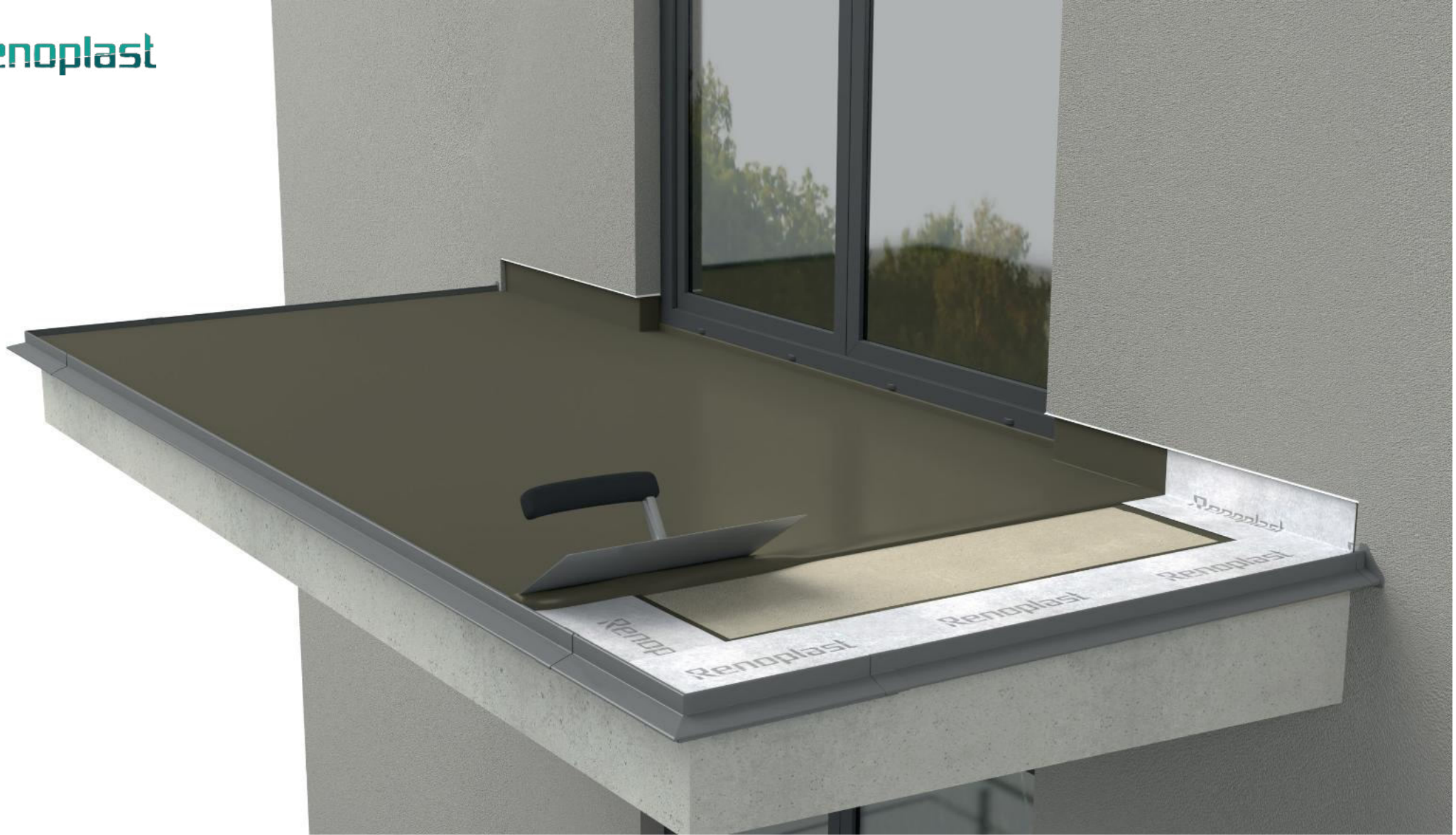
## Sealing of joints with LK102 connector installation

The profile joints are filled with a permanently elastic compound (e.g. polyurethane), and the connectors are installed from the outside.



## Connection of underlay to profiles and door threshold

The profiles are bonded to the cementitious subfloor with **Renoplast PL3 sealing tape**. The connection to the door threshold is made using **Renoplast PL3 threshold tape with butyl strip**.



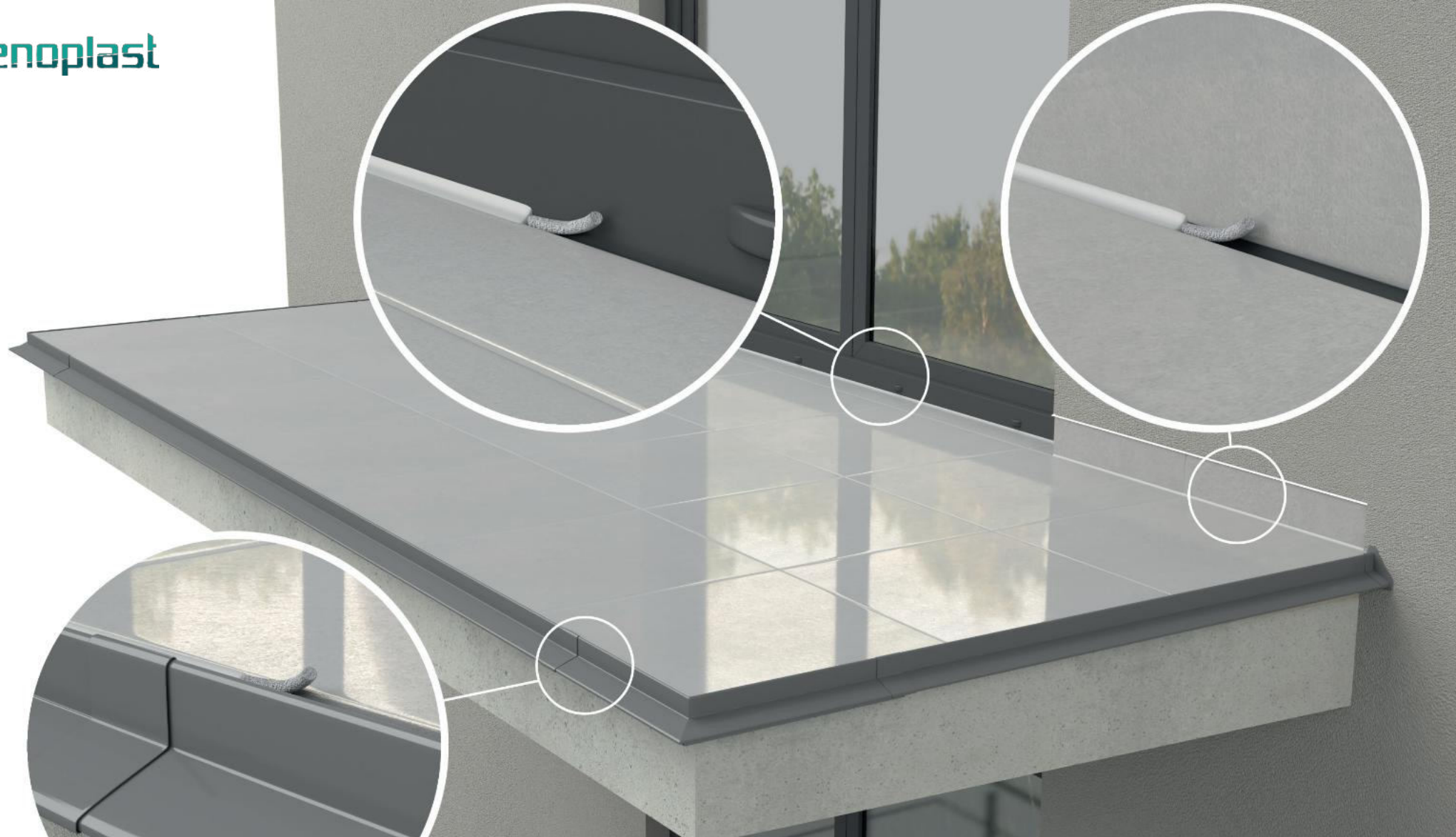
## **Waterproofing layer made of sealing mortar**

On the cement base, we make waterproofing from the sealing mortar in accordance with the recommendations contained in the mortar manufacturer's technical data sheet.



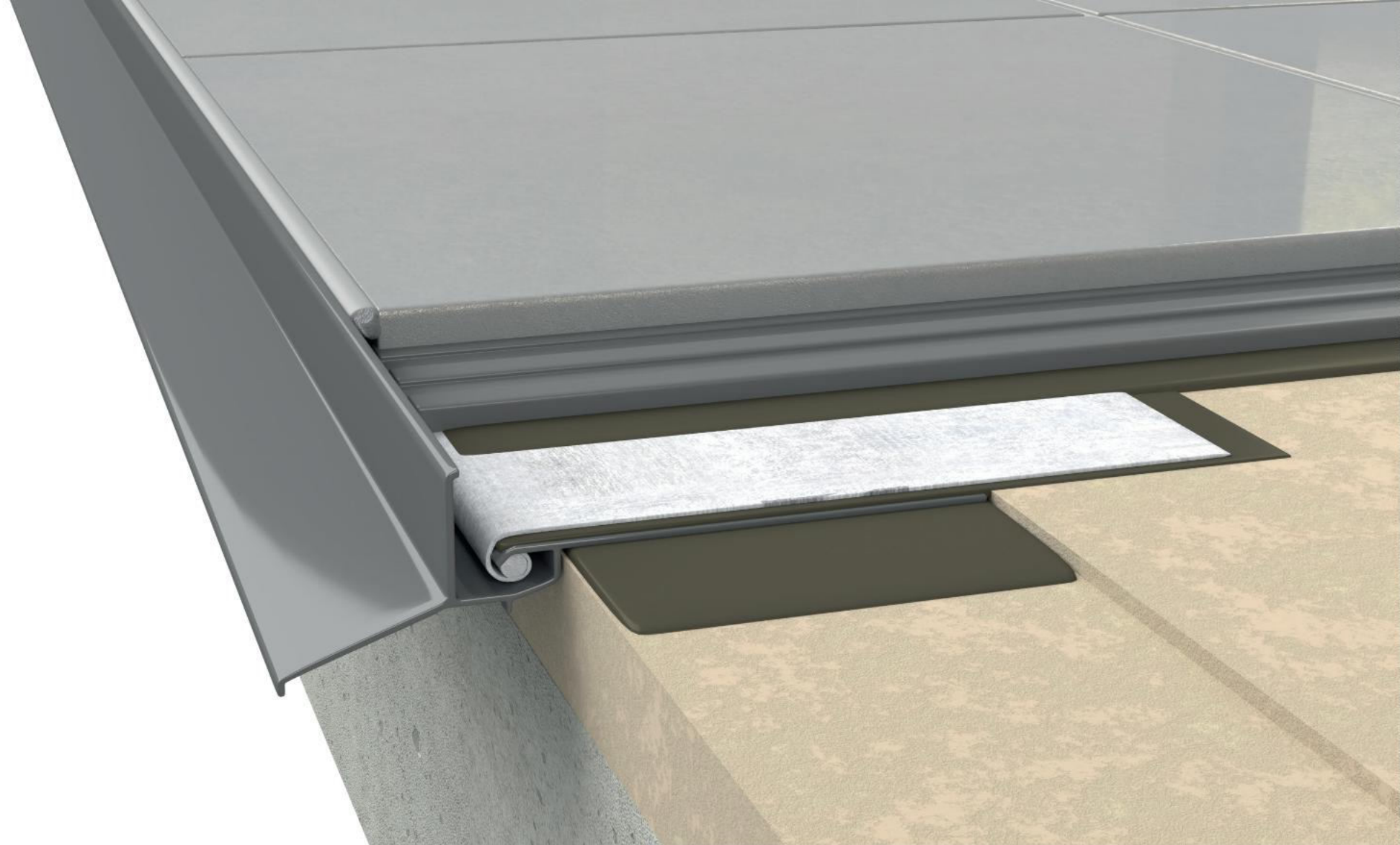
## Laying floor tiles

Lay ceramic tiles on the bound sealing mortar. Ceramic tiles are laid on the adhesive mortar, suitable for outdoor applications (recommended class C2-S1 C2-S2). When laying the tiles, leave them along the profile a gap of about 5 mm.



### **Making a flexible connection between the K102 profile and the floor and other connections**

In the gap created along the eaves profile and in the gaps between the door threshold and the floor, between the plinth and the floor and along the floor expansion joints, lay an expansion cord with a diameter of  $\phi 6$  mm. Then the fissures we fill with permanently elastic mass (e.g. polyurethane).



## COMMENTS:

Drainage holes on the **K102** profile are located below the level of waterproofing, thanks to which they effectively drain water from the subfloor layers. The **K102** profile has been designed to protect the edge of the tile and ensure full tightness in the eaves zone. The shape of the profile allows for the system installation of the **Renoplast CLEVER** tape.