

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

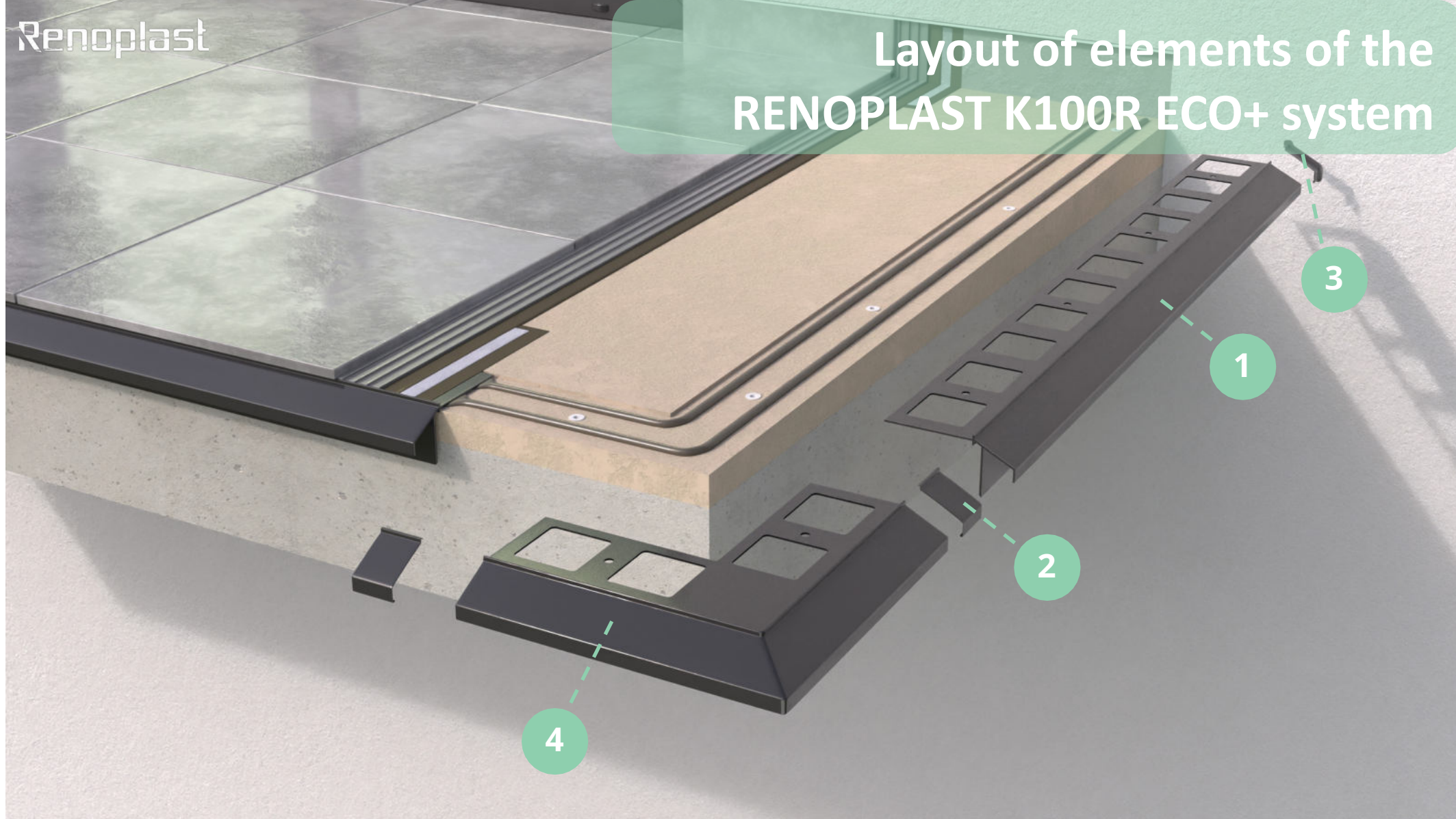
## **RENOPLAST K100R ECO+**

ceramic tile flooring

installed on a mineral-based adhesive mortar



# Layout of elements of the RENOPLAST K100R ECO+ system



**Straight profile K100R**  
length 200 cm



1

**Connector**  
LK100R



2

**OPK100R End stops**  
(left/right)

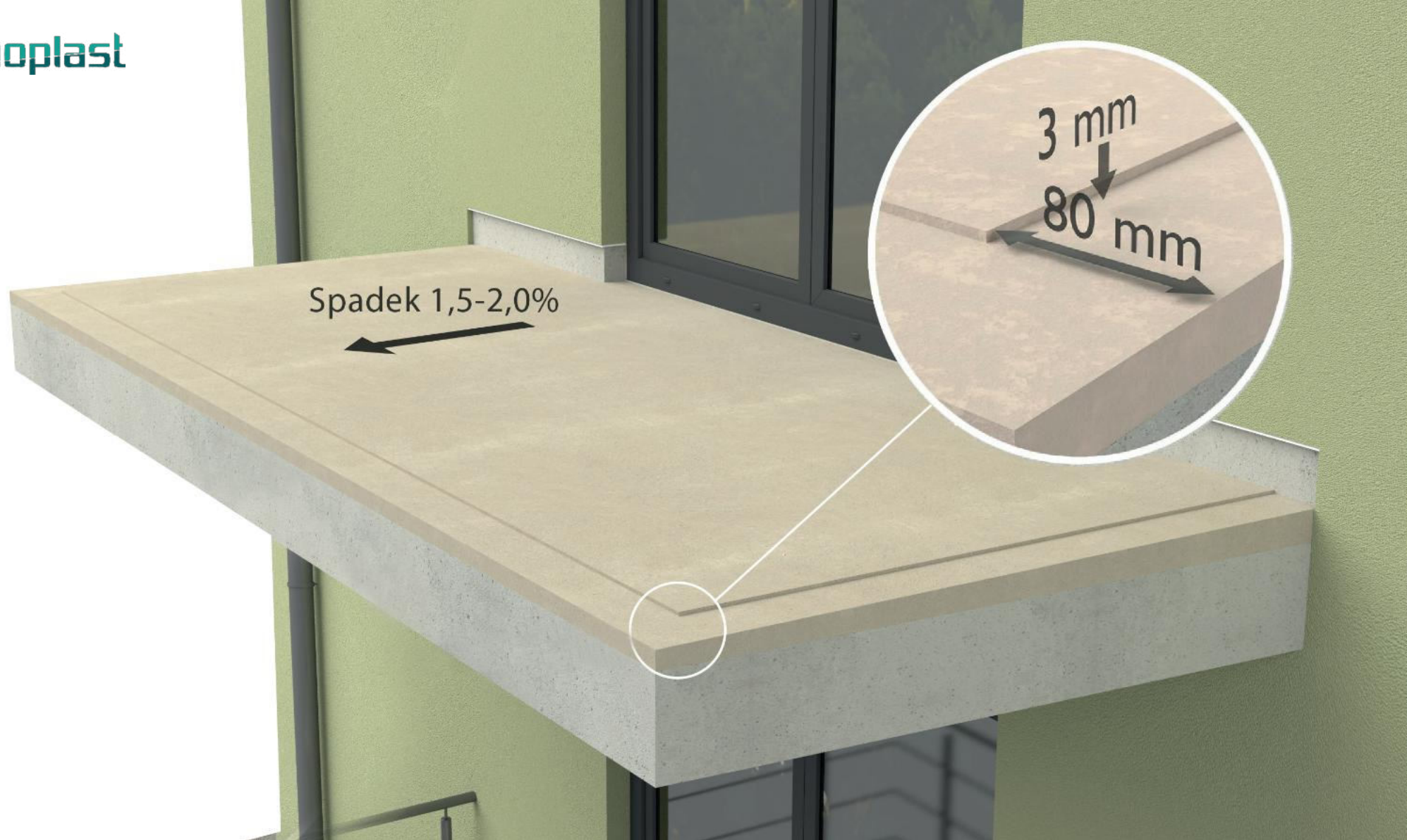


3

**NZ K100R/90**  
Outside corner 90°



4



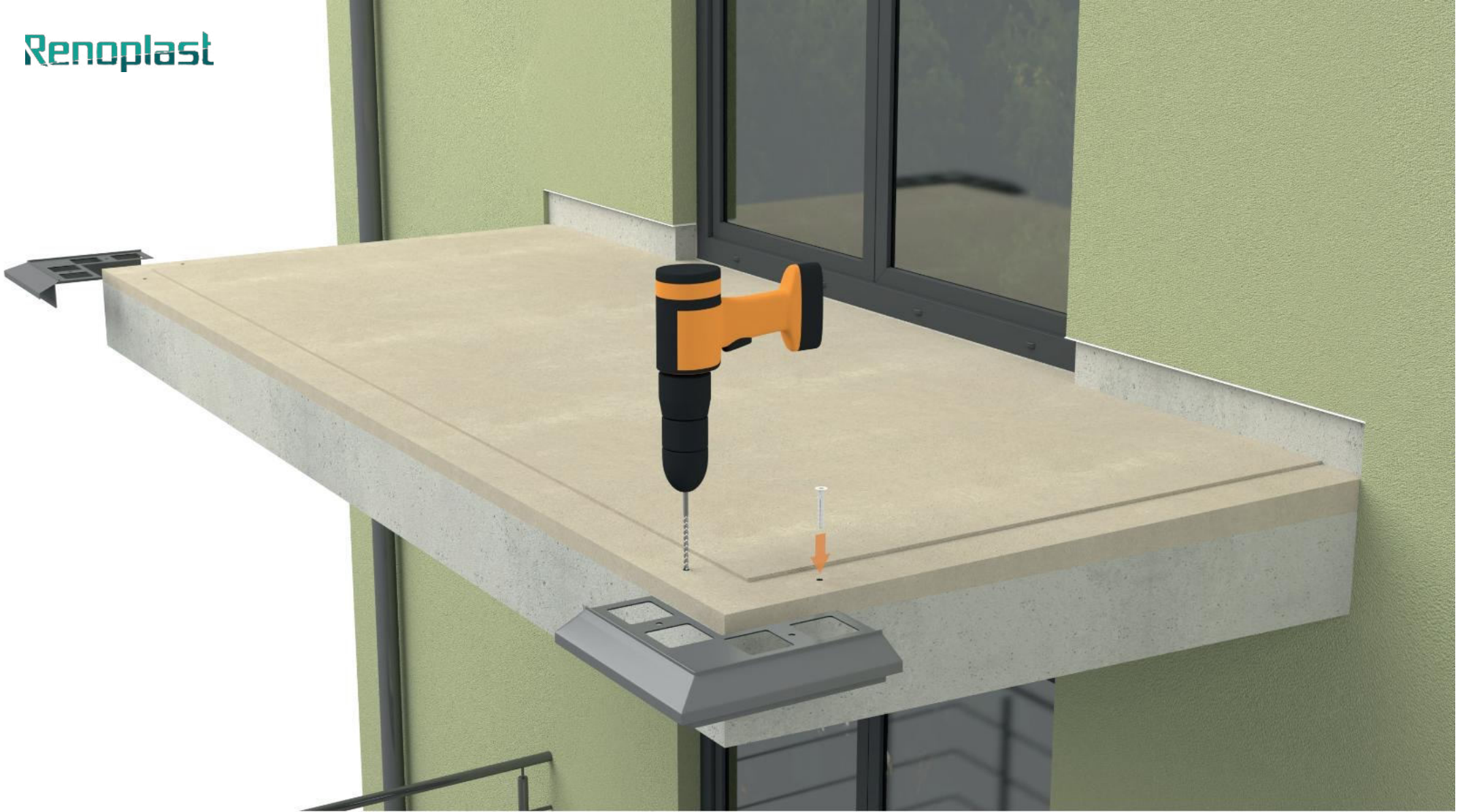
Spadek 1,5-2,0%

3 mm

80 mm

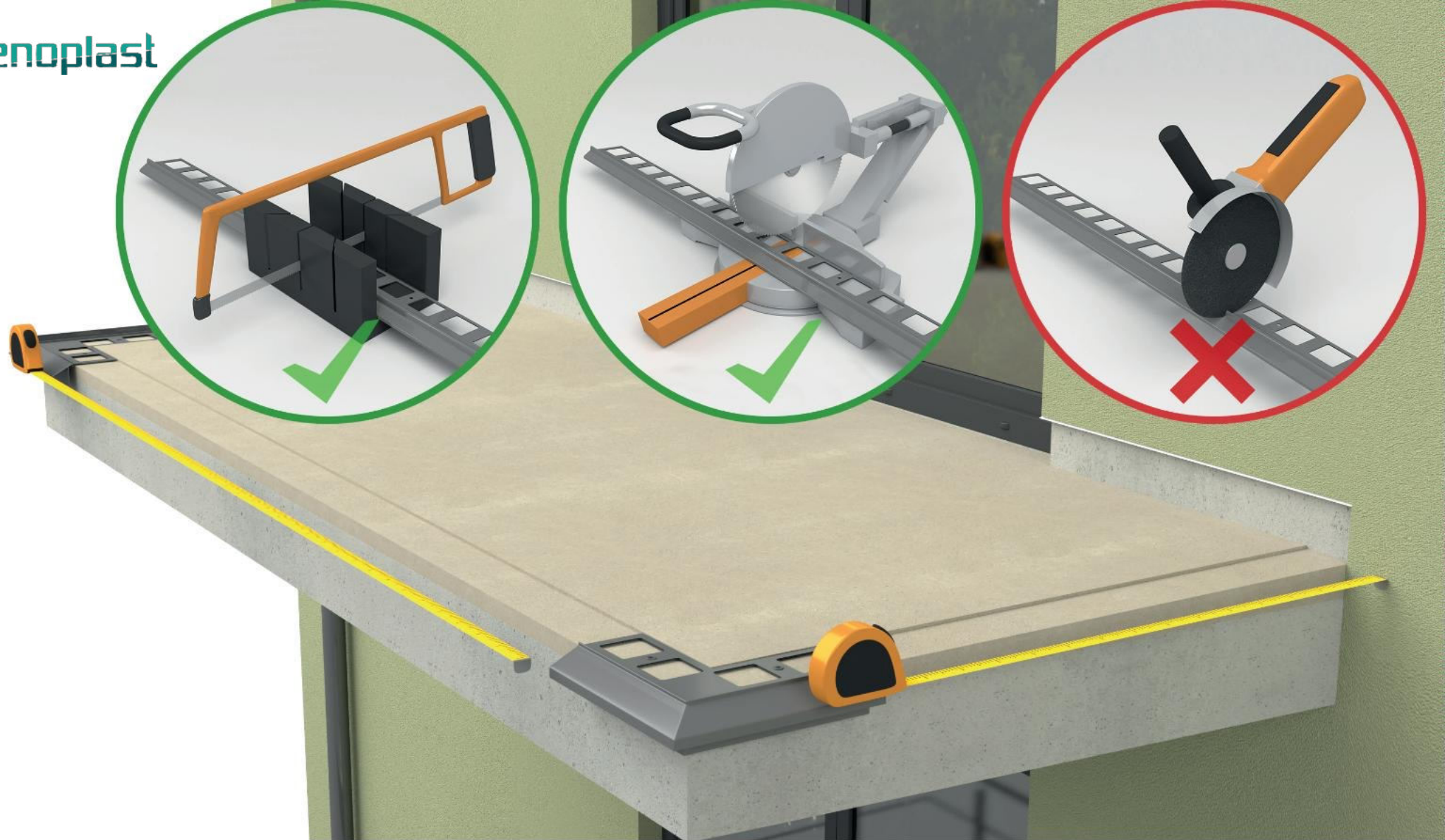
### Balcony/terrace floor bases

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.



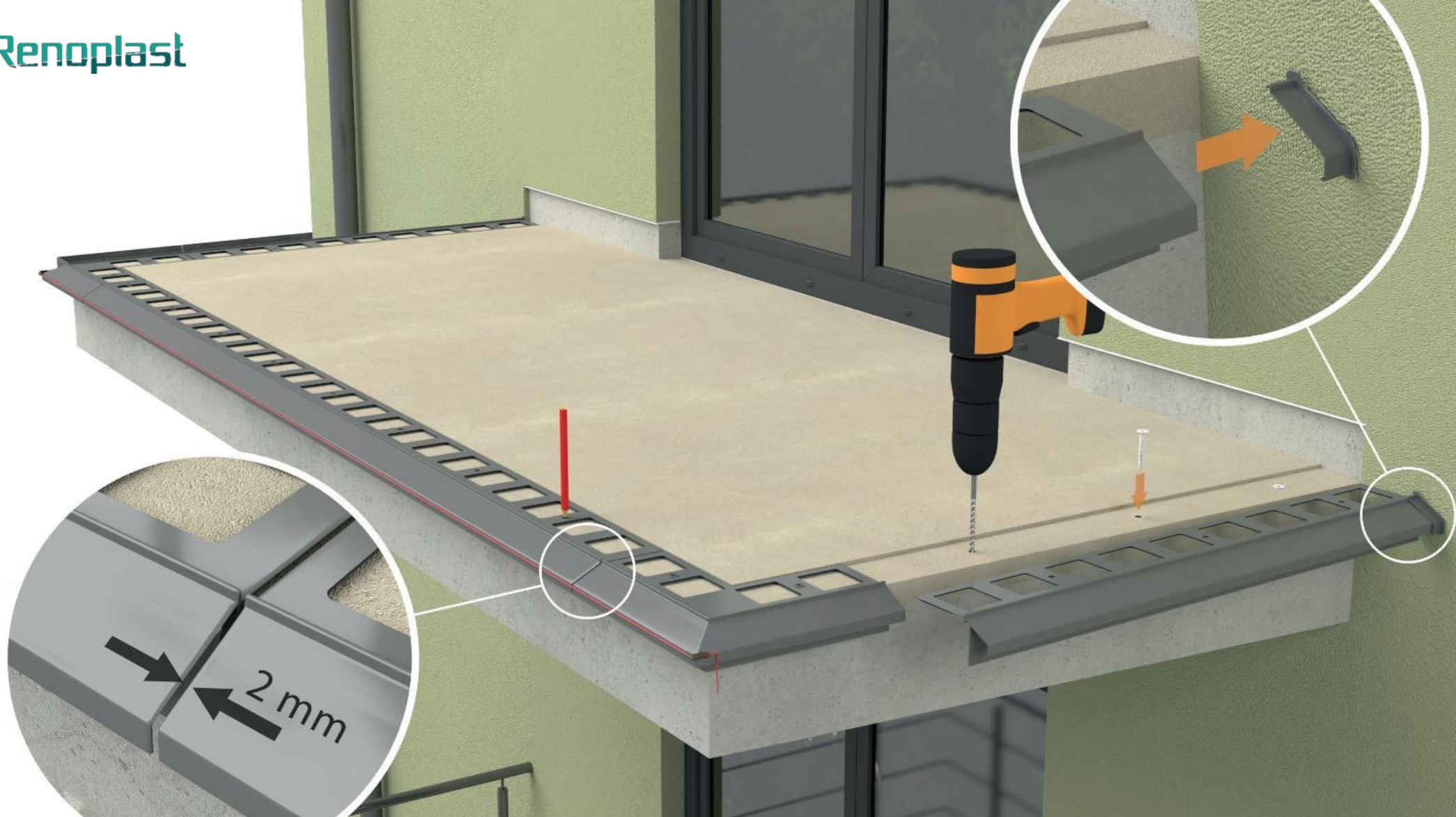
### **Pre-assembly of NZ K100R/90 corners**

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 K100R

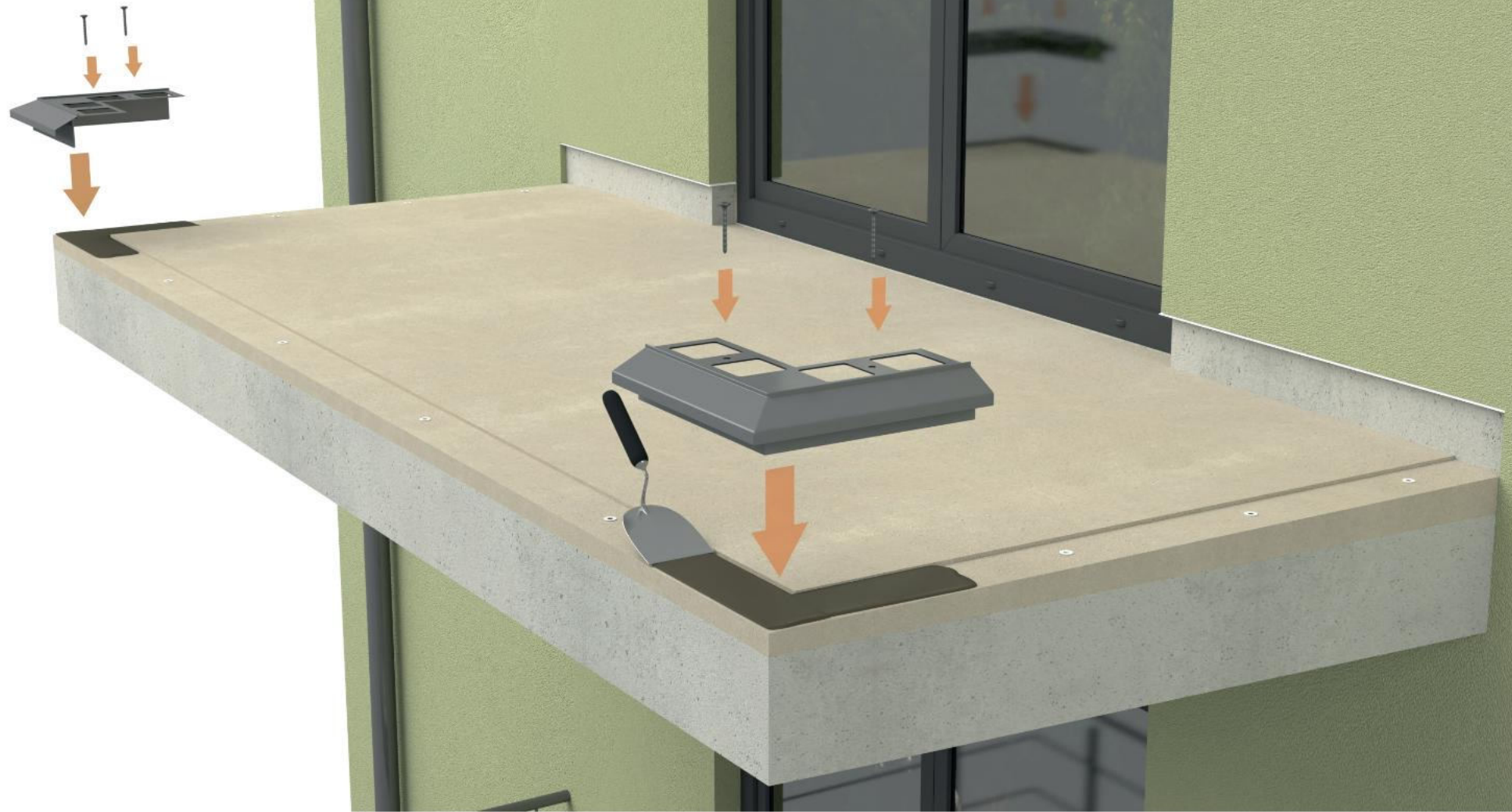
The next step is to measure the straight sections to prepare (cut) the straight profiles. The straight sections must be prepared in such a way as to leave expansion gaps of approx. 2 mm at the joints and a space of approx. 2 mm at the wall for the **OPK100R** end stop. The profiles should be cut with 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

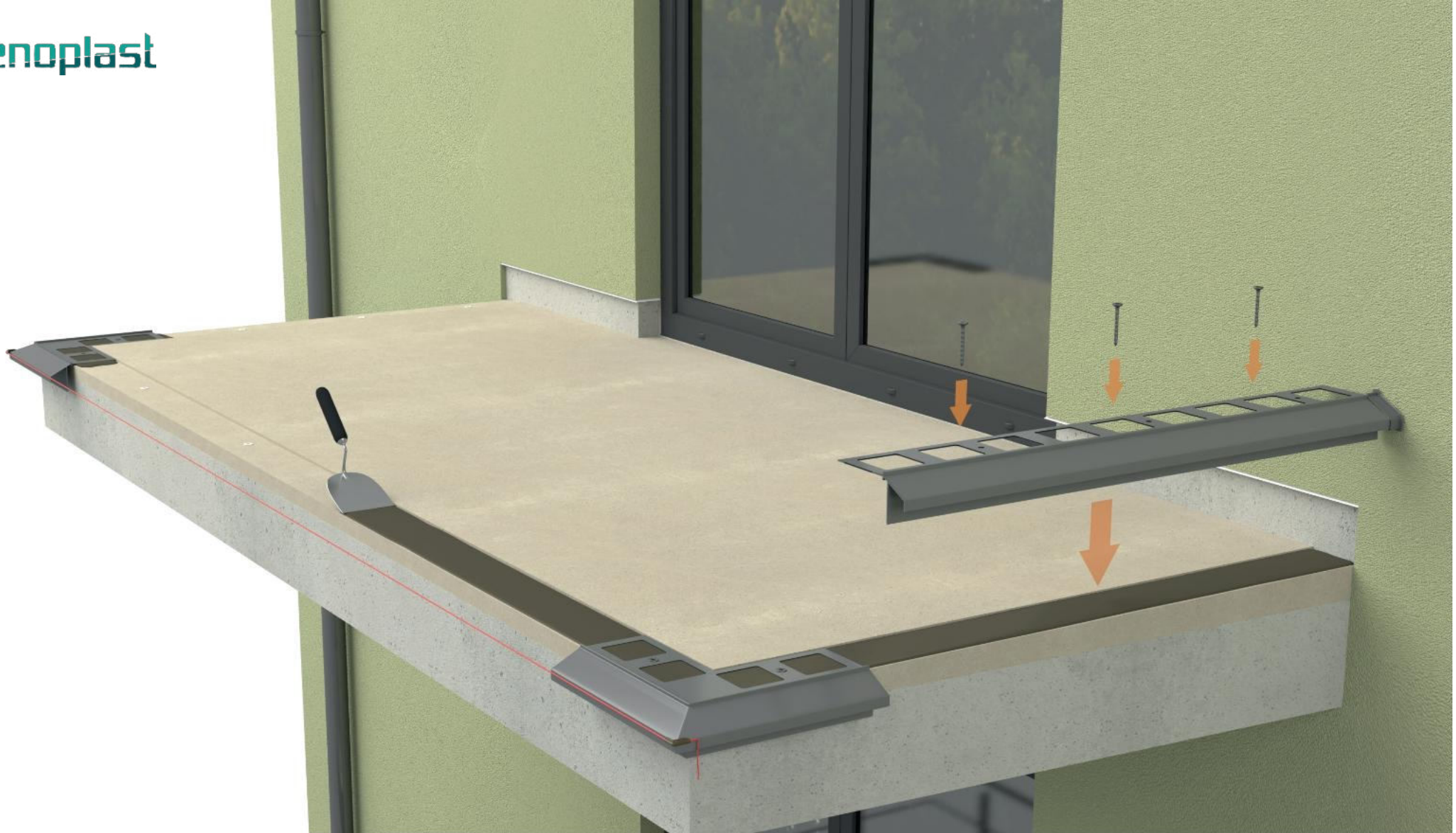
Place the **K100R** straight profiles between the **NZ K100R/90** corners and mark the locations for the installation holes on the subfloor. Remove the profiles, then drill the installation holes.

Renoplast



### Installation of NZ K100R/90 corners

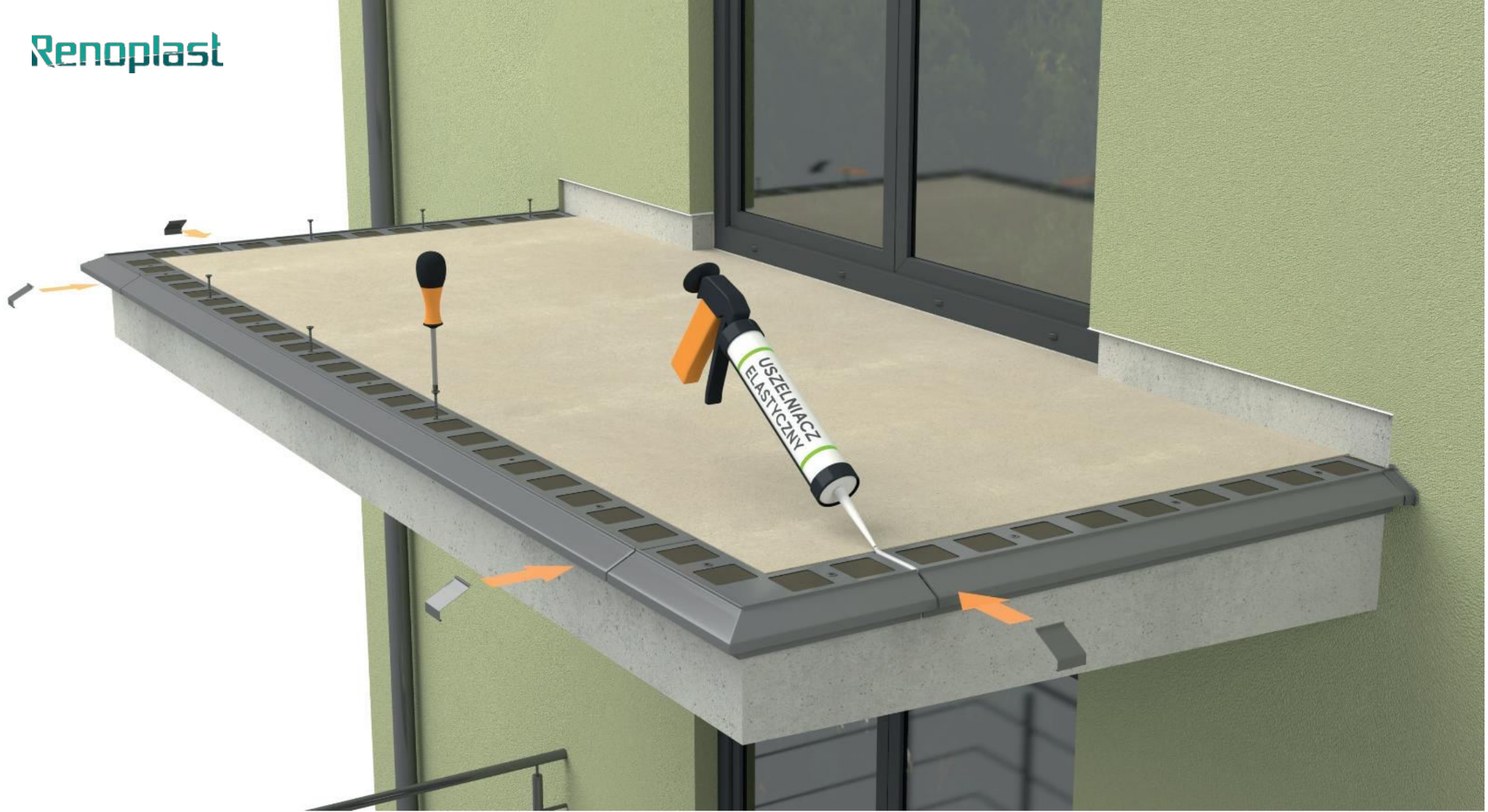
The corners are placed on a flexible mass (e.g. polyurethane), and then mechanically fastened with the help of pre-installed expansion bolts.



## Installation of straight K100R profiles

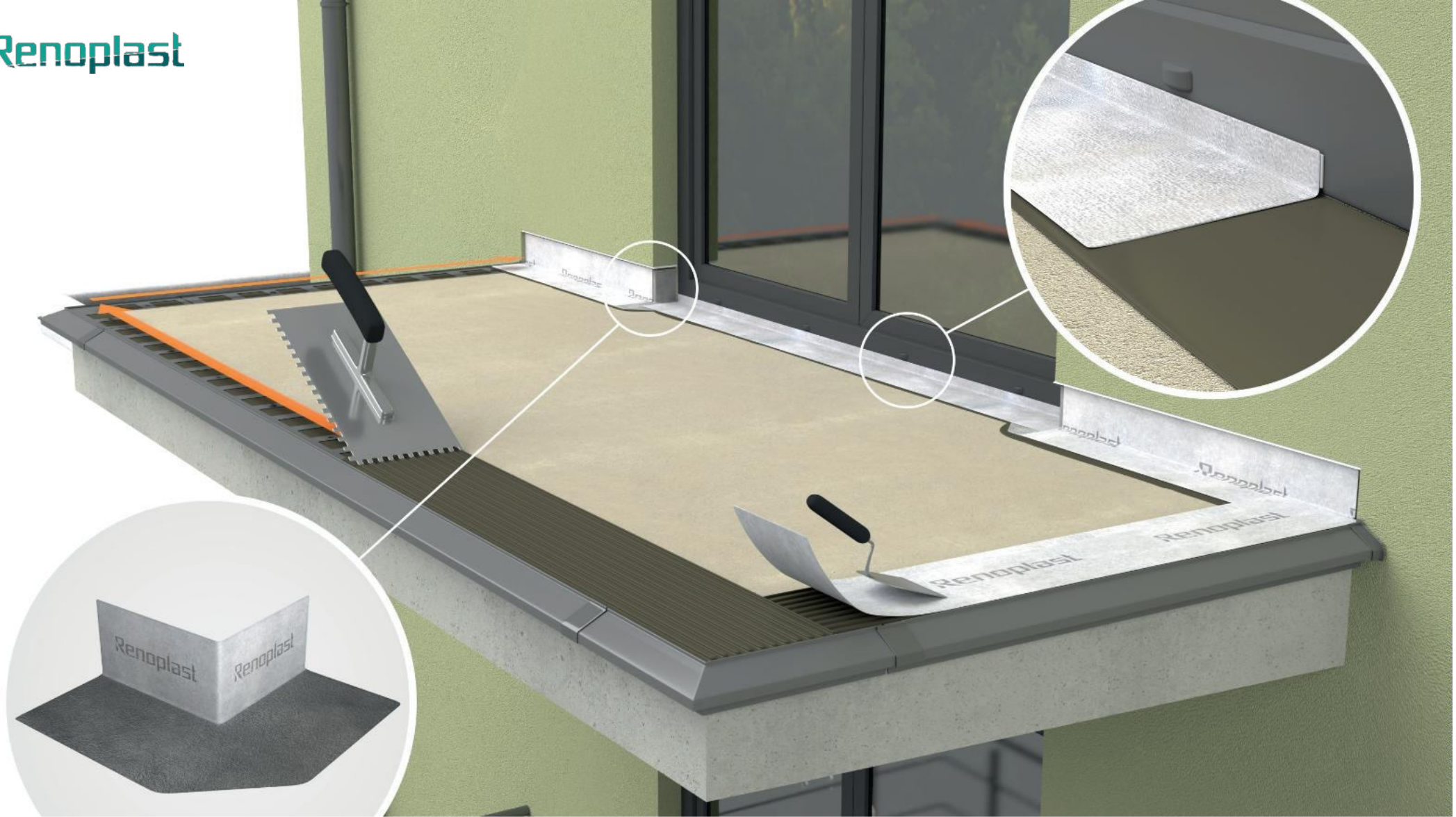
Straight profiles are set in the same way as corners. Using a string stretched between the corners and spirit level, we take care of their even assembly.





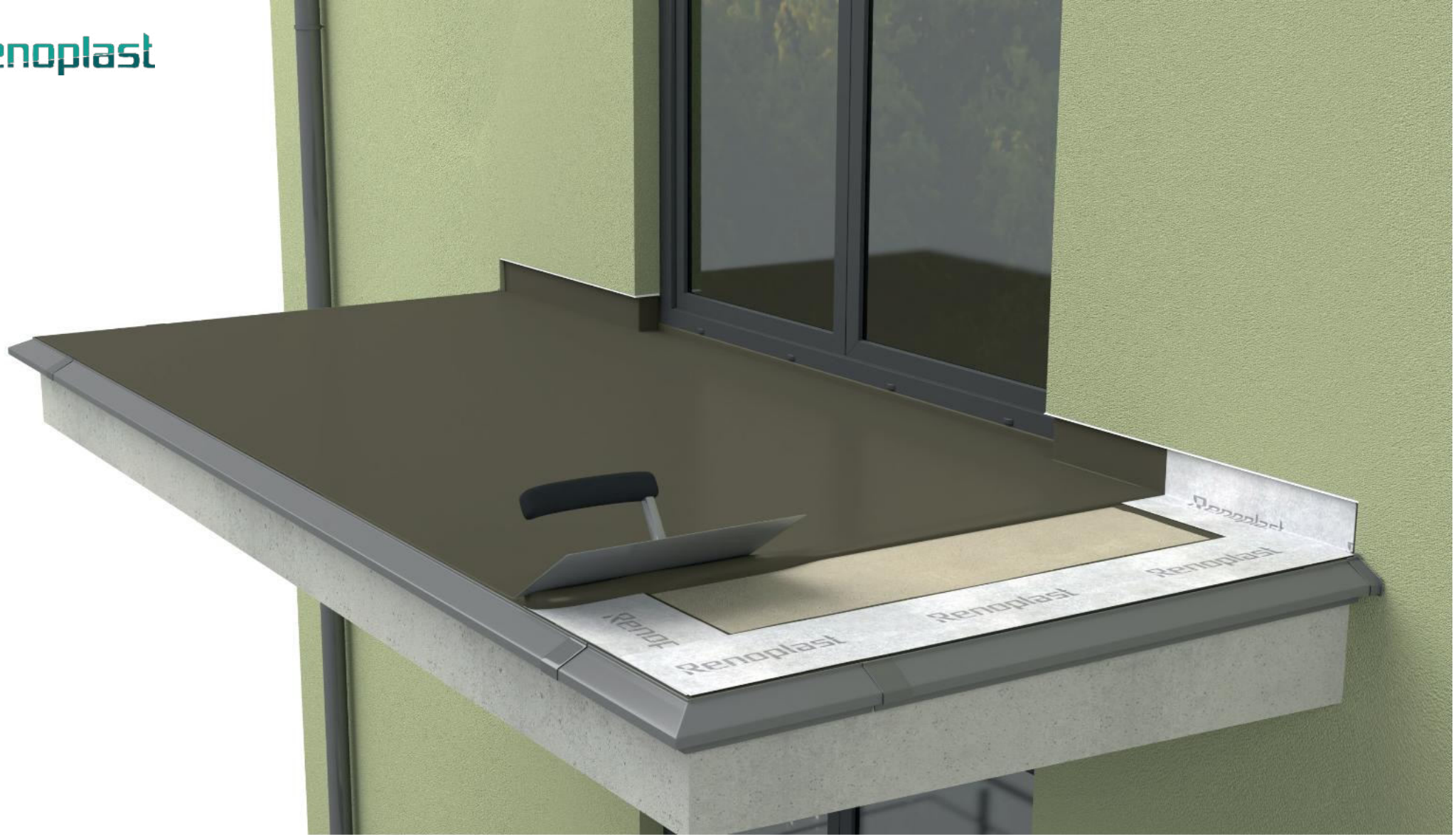
### Sealing of joints with LK100R connector installation

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



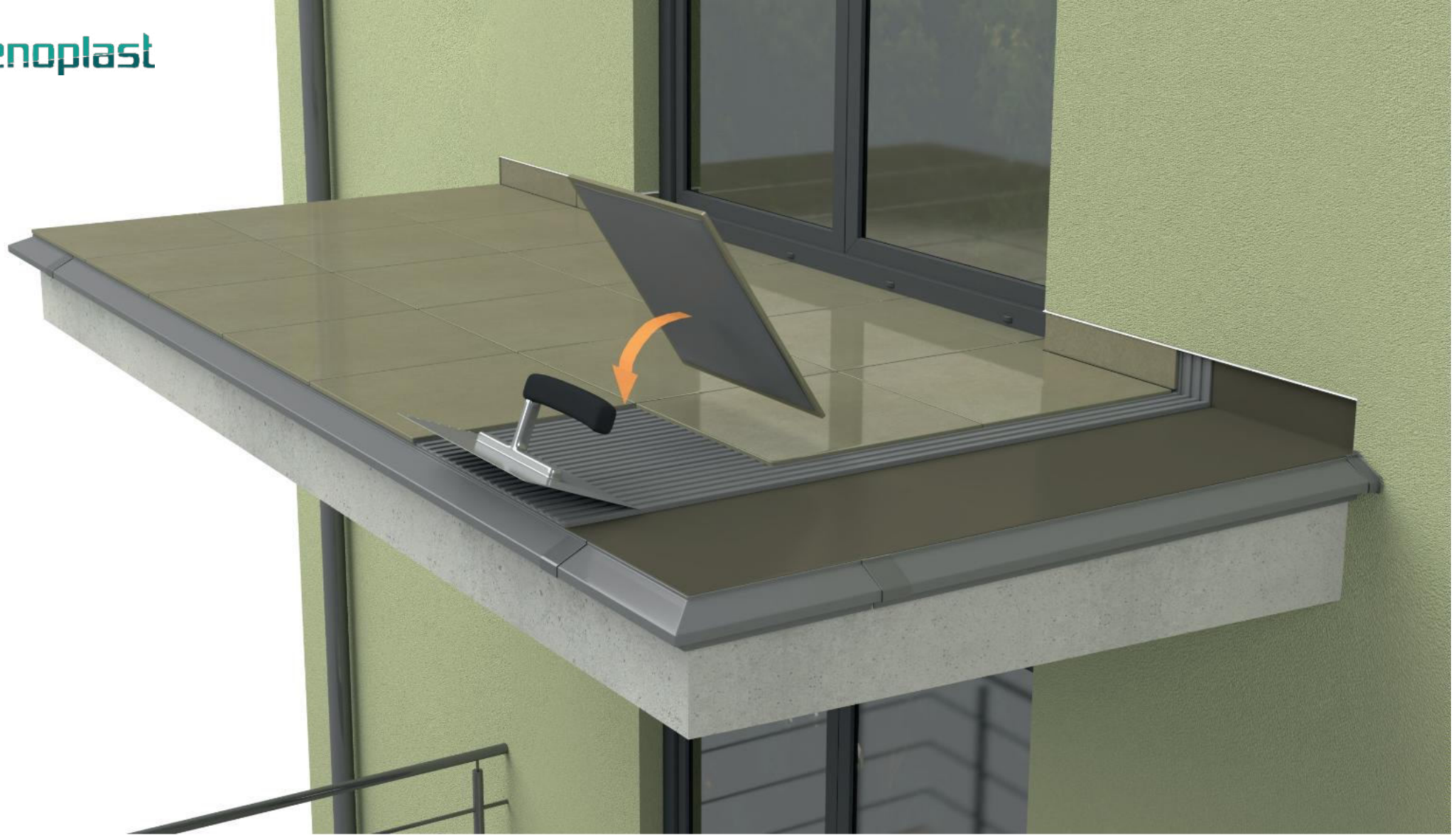
## Connection of underlay to profiles and door threshold

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**.



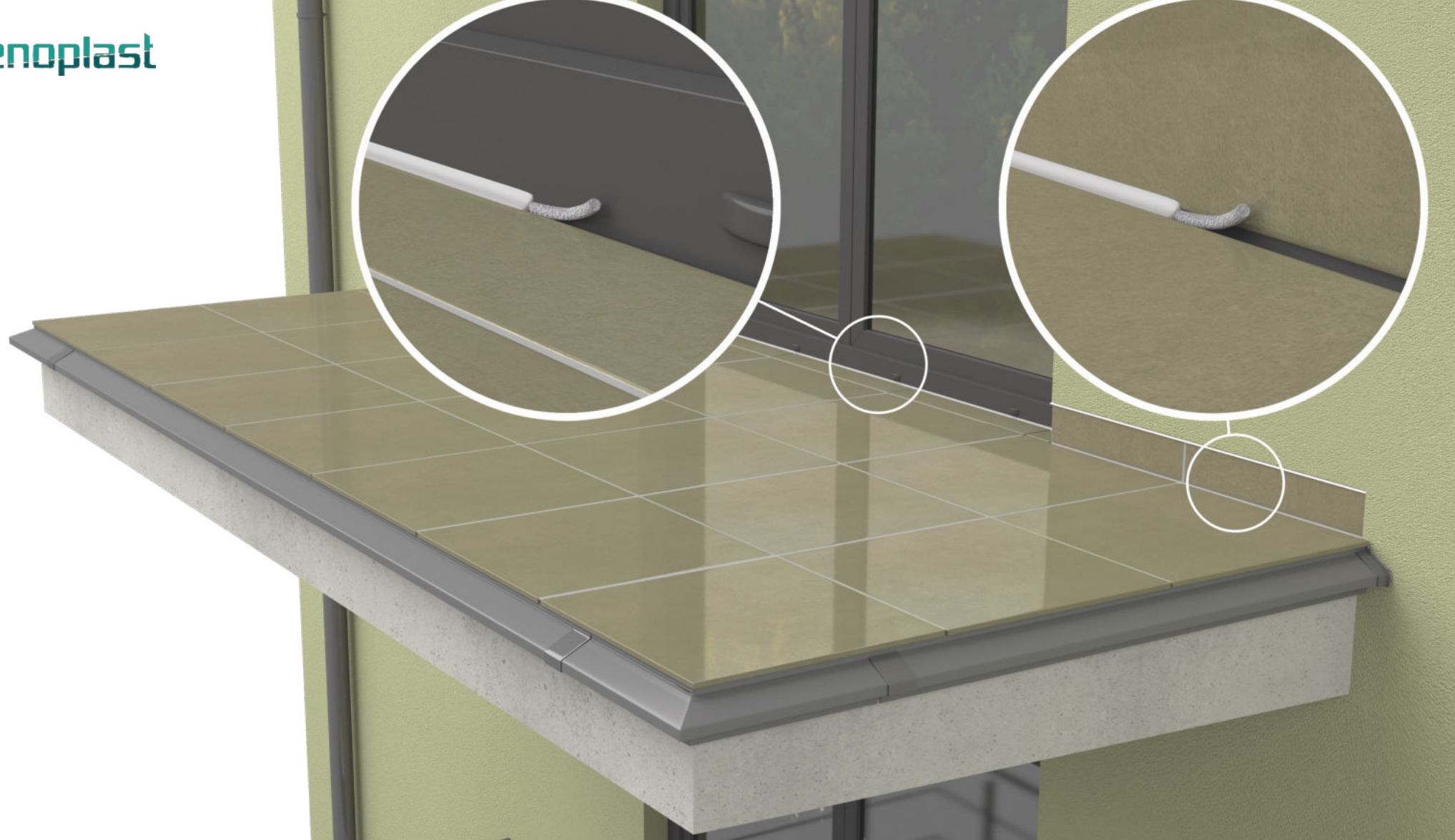
## **Waterproofing layer made of sealing mortar**

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.



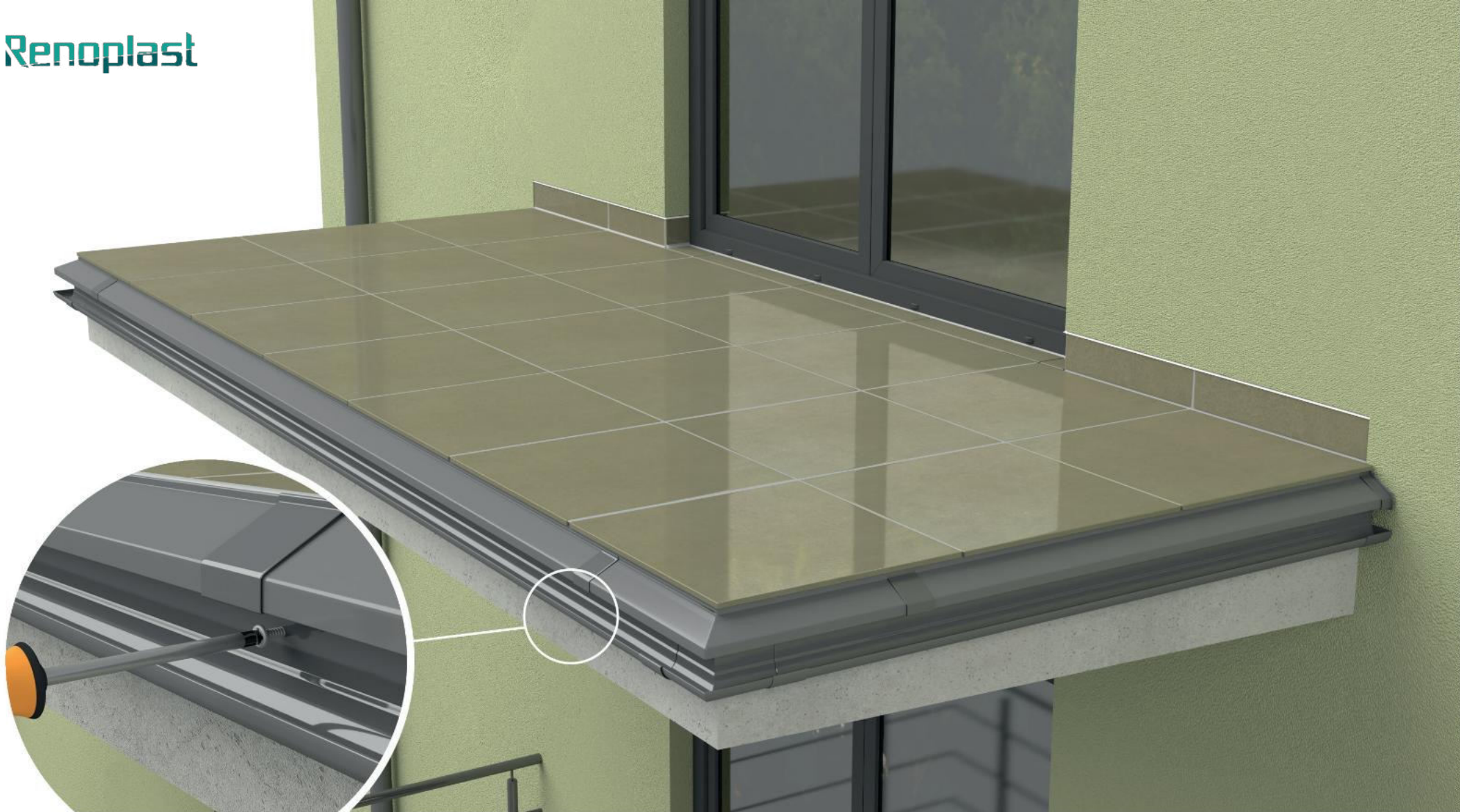
## Laying floor tiles

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).



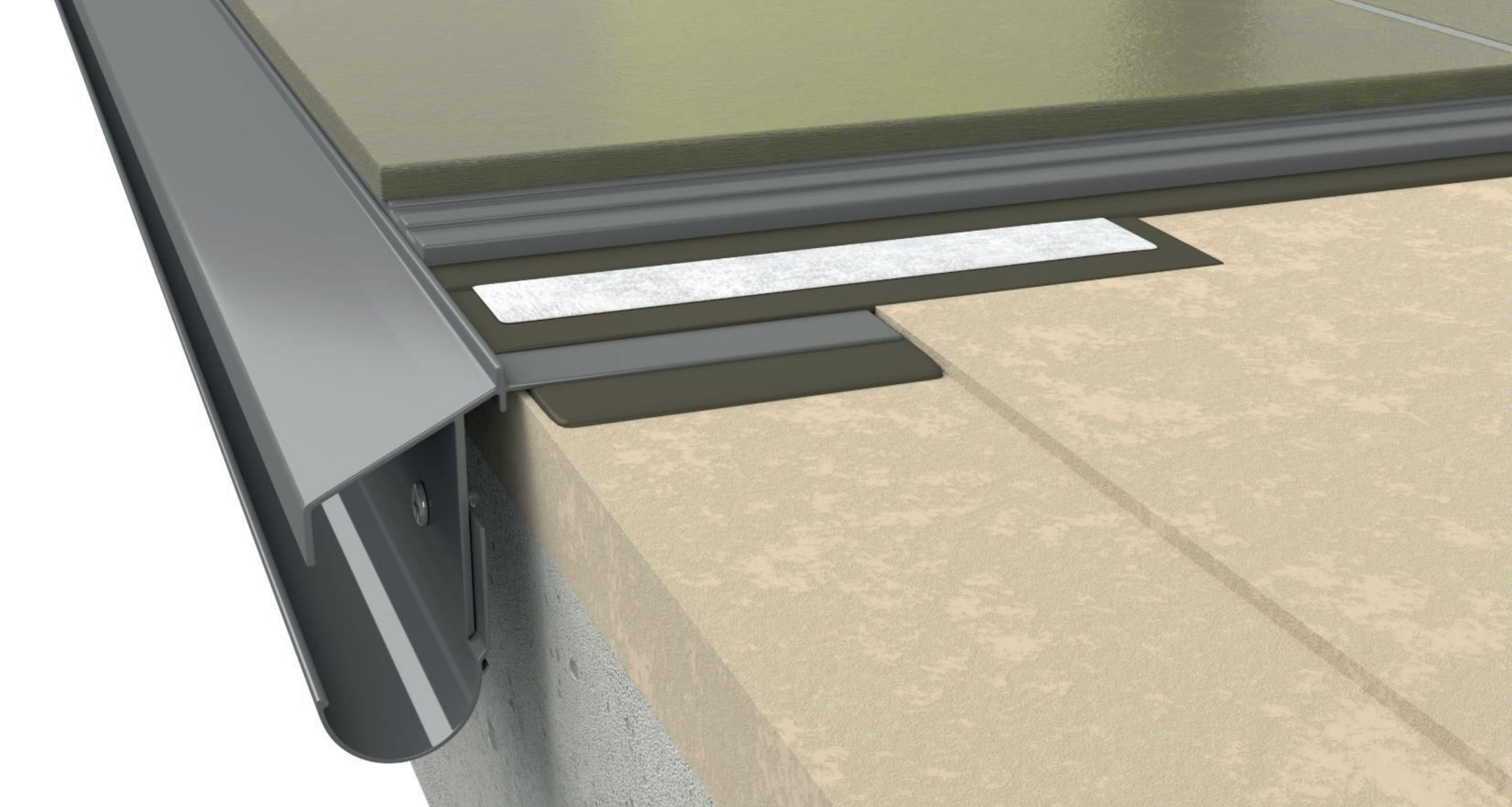
### **Making flexible connections to the door threshold, the plinth and along expansion joints**

In the gaps between the door threshold and the floor, between the plinth and the floor and along the floor expansion joint, we lay an expansion joint cord with a diameter of  $\phi 6$  mm. Then we fill the gap with a permanently elastic compound such as polyurethane or ms polymer. **Do not seal the space between the edge of the tile and the K100R profile.**



## Installation of the R50 aluminium gutter system

The **K100R** profile enables the assembly of the **R50** aluminium gutter system. The **R50** gutter is fastened directly to the belt under the profile **K100R**, using self-drilling stainless steel screws (screws included with the gutter). We assemble at the connections **LR50** connector (see installation manual of the **R50** gutter system).



## COMMENTS:

The front edge of the **K100R** profile is 3 mm high, which corresponds to the thickness of the sealing mortar (reinforced with tape). The falling edge of the **K100R** profile effectively drains water from the surface of the balcony/terrace.