Renoplast

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

# RENOPLAST K40 BASIC+

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

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Renoplast

# Layout of elements of the RENOPLAST K40 BASIC+ system


**Straight profile K40 length 200 cm**

1

**Connector LK40**

2

**OPK40 End stops (left/right)**

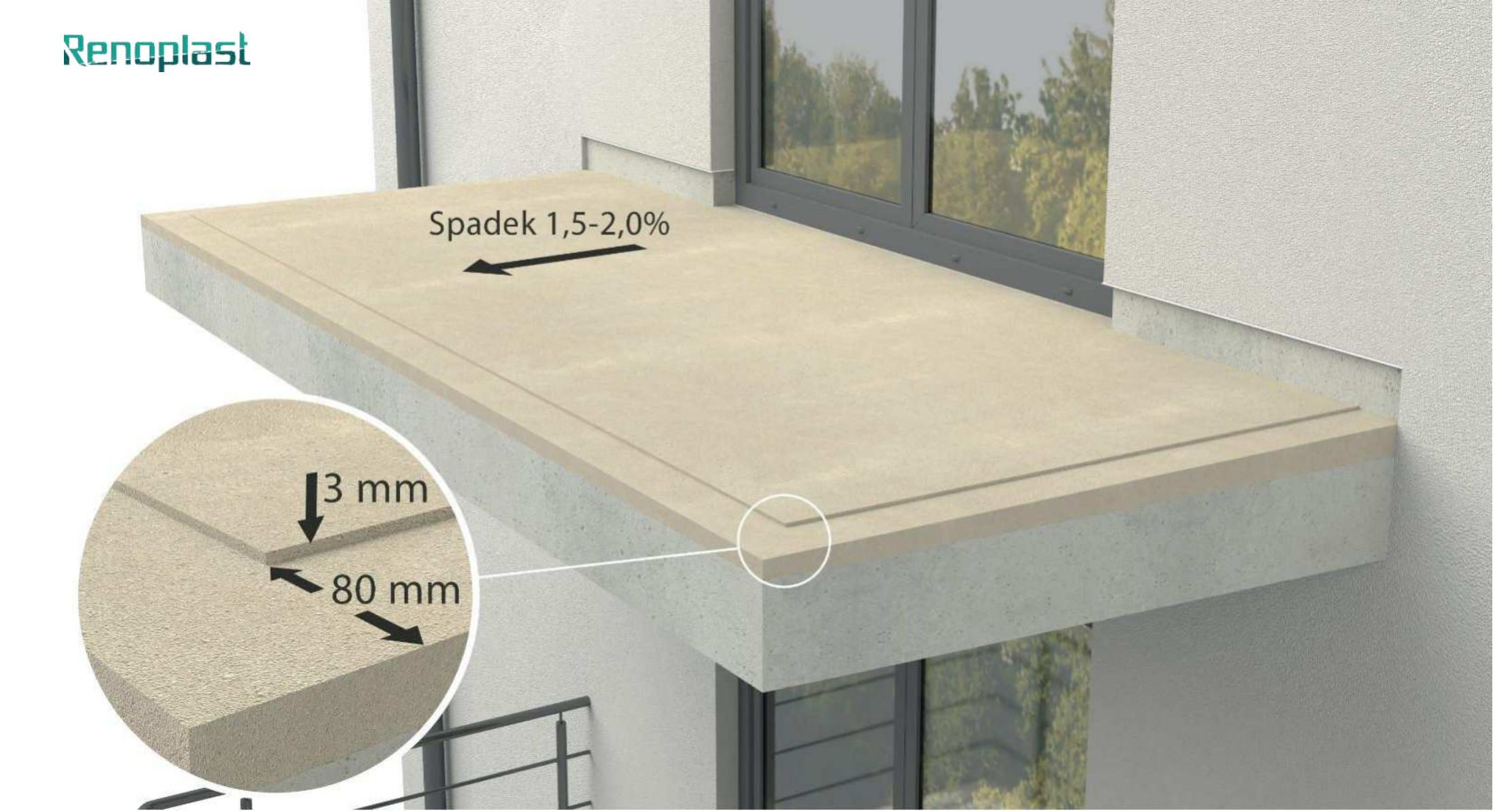
3

**NZ K40/90 Outside corner 90º**

4

**Gutter hook G75/MG75**

5

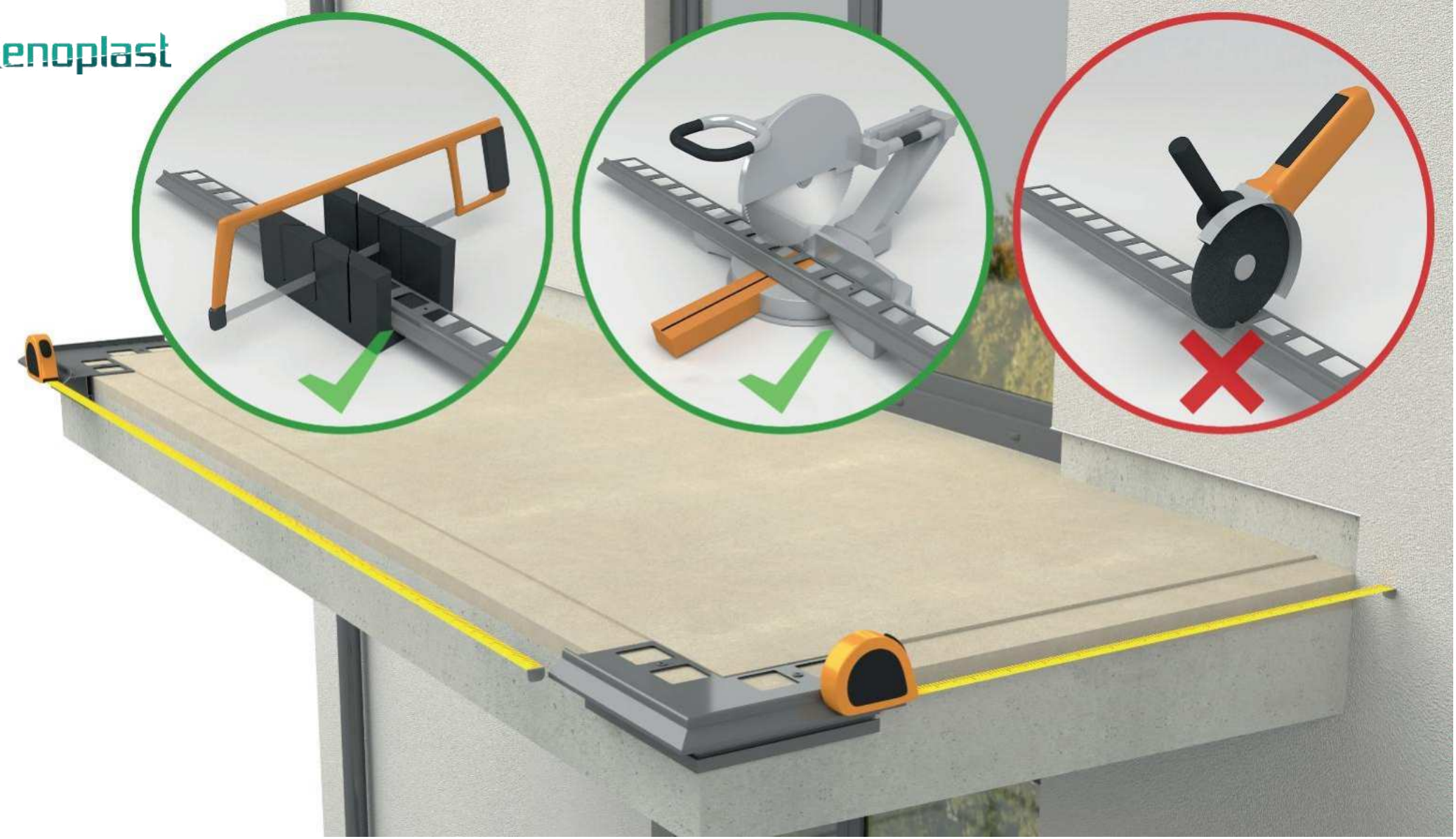



**Balcony/terrace floor bases**

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.

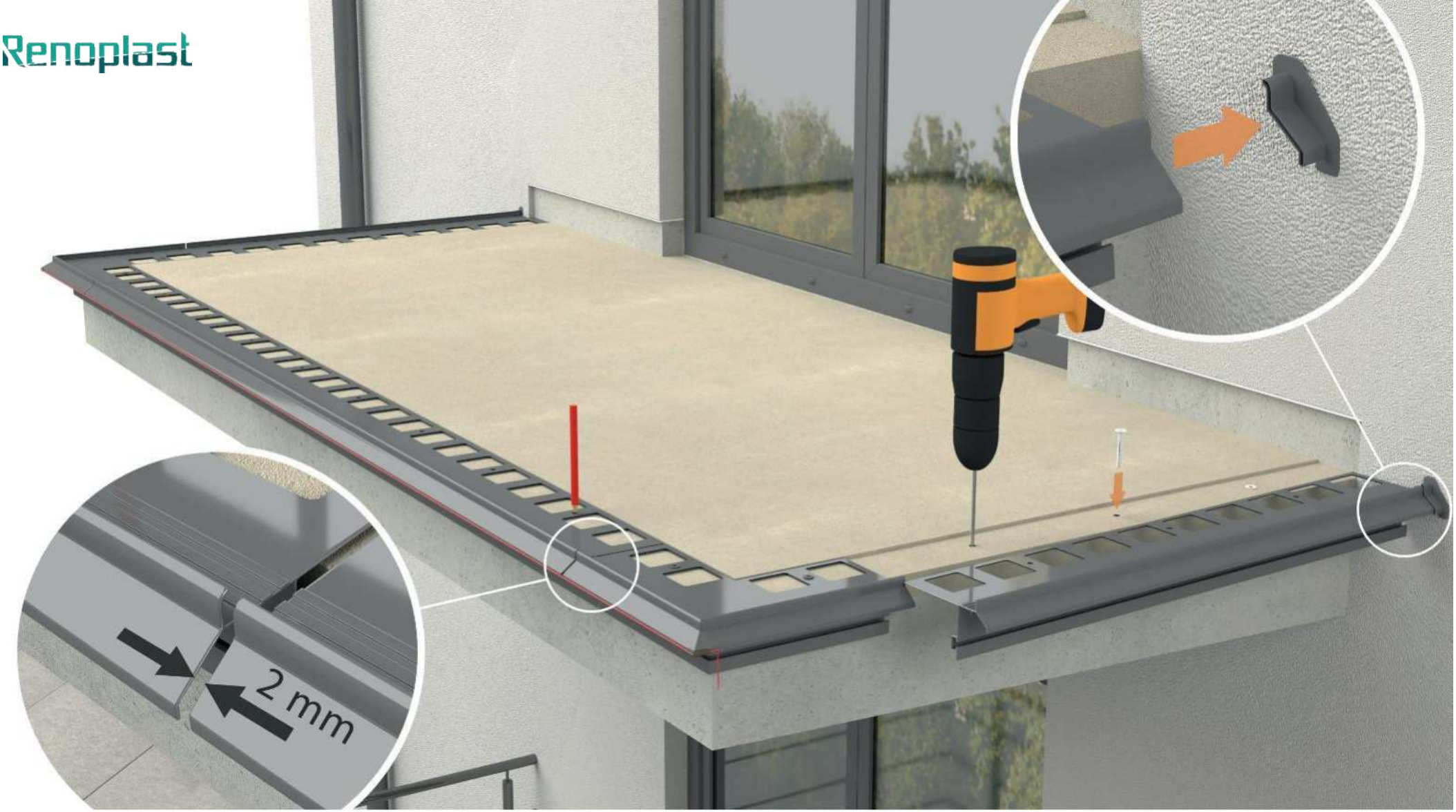
**Pre-assembly of NZ K40/90 corners**

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



## Preparation of straight profiles K40

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 **OPK40** 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.

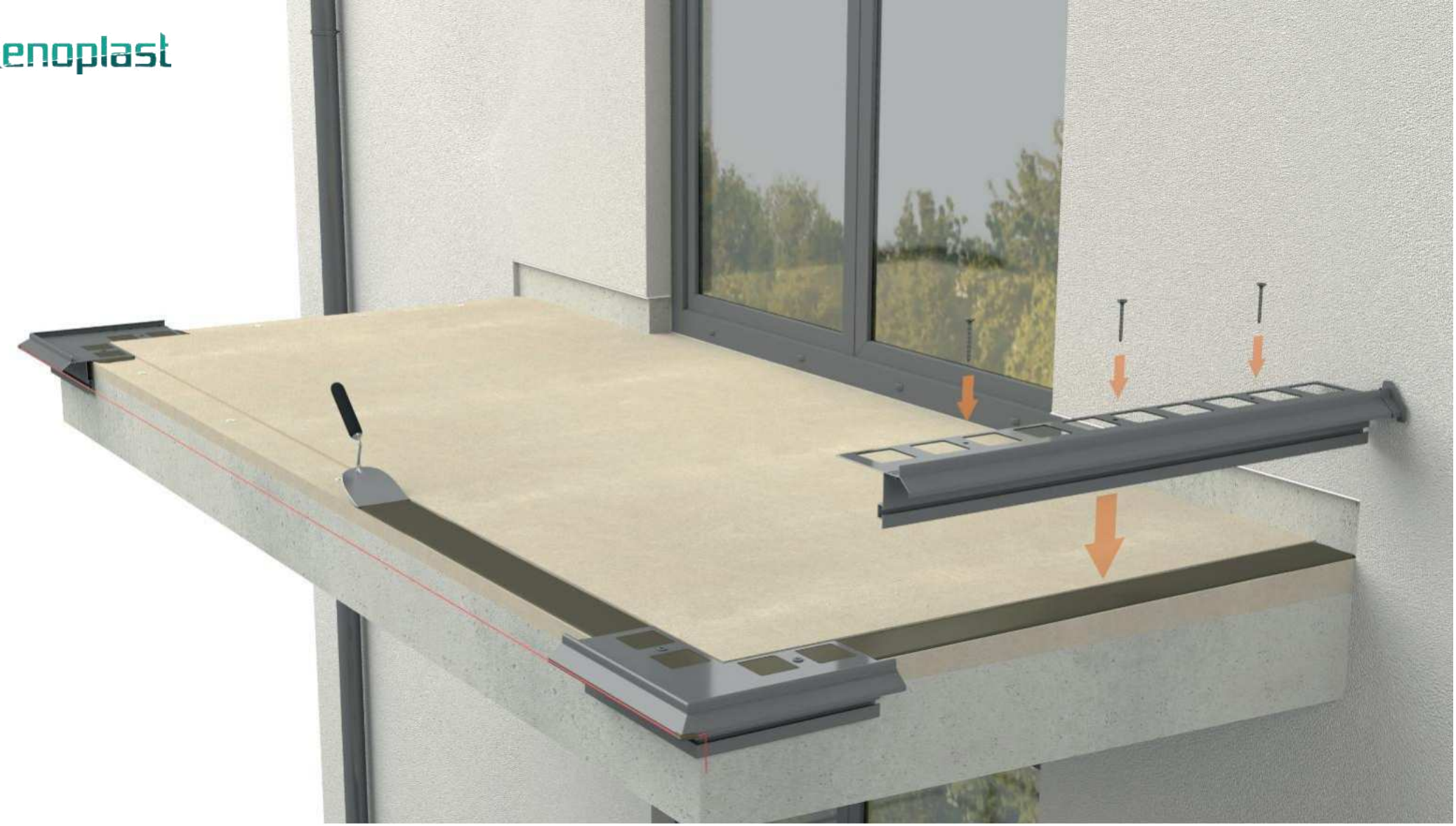



**Making the installation holes in the subfloor**

Place the **K40** straight profiles between the **NZ K40/90** corners and mark the locations for the installation holes on the subfloor. Remove the profiles, then drill the installation holes.


**Installation of NZ K40/90 corners**

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

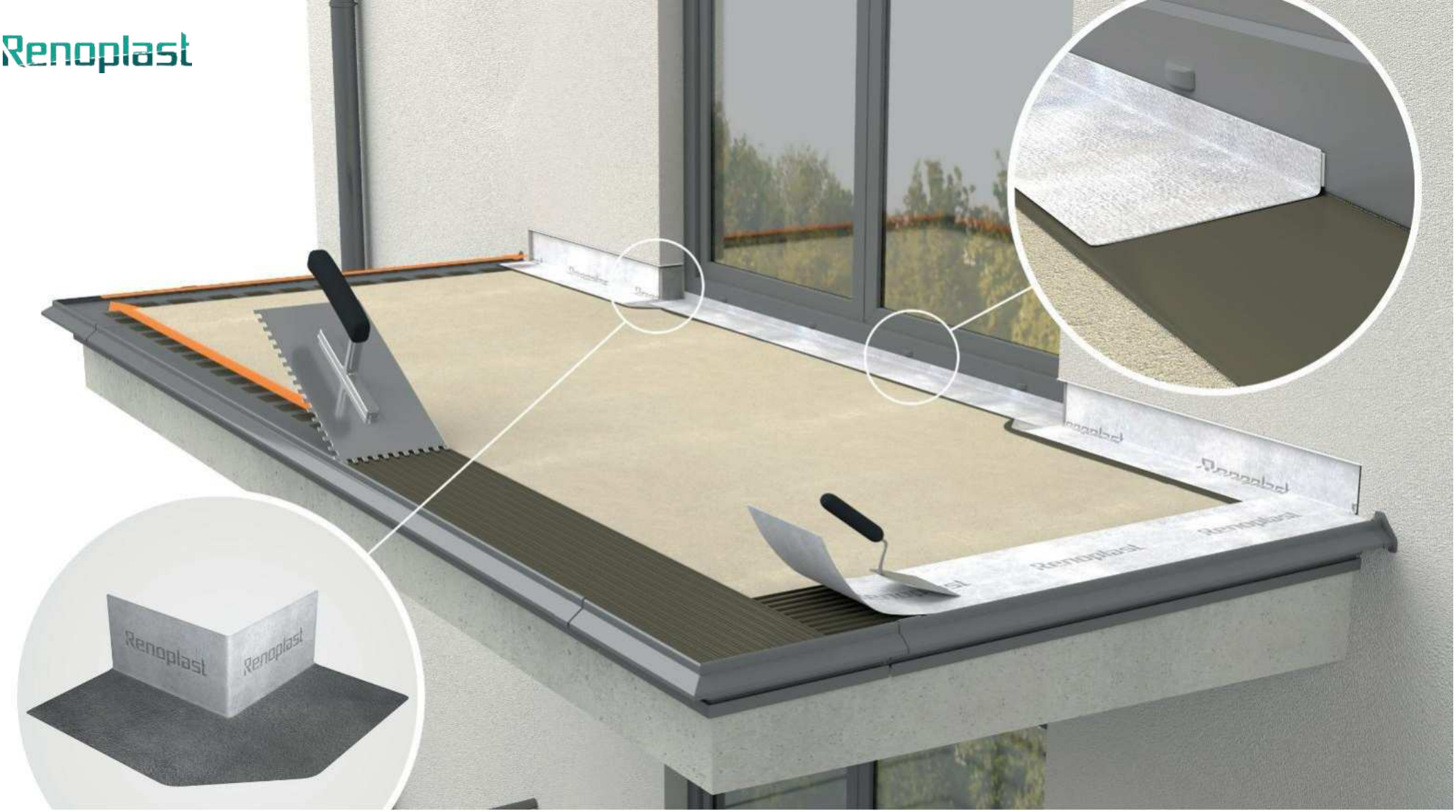


**Installation of straight K40 profiles**

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 LK40 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

Once the mortar has set, the ceramic tiles are laid on an adhesive mortar suitable for external use (class C2-S1 or C2-S2 recommended). The tiles should be laid to the expansion joint cord glued into the **K40** profile at the factory.


**Making a flexible connection between the K40 profile and the floor and other connections**

An expansion joint with a diameter of ϕ6 mm is laid in the gaps between the door threshold and the floor and between the plinth and the floor. All joints are then filled with a permanently elastic compound (e.g. polyurethane). In the case of **K40** profiles with pre-applied expansion cords, no additional 6mm-diameter expansion cords must be laid.

**Installation of 75 mm PVC gutter**

The **K40** profile is equipped with a gutter strip, which allows the installation of a gutter with a diameter of 75 mm (e.g. Marley, Gamrat or Bryza). **RENOPLAST MG75** or **G75** hooks are screwed to the gutter band with stainless steel screws on the **K40** profile. Install the chosen gutter system on the set hooks.

**COMMENTS:**

Drainage holes on the **K40** profile are located below the level of waterproofing, thanks to which they effectively drain water from the subfloor layers. The **K40** profile has been designed to protect the edge of the tile and ensure full tightness in the eaves zone.