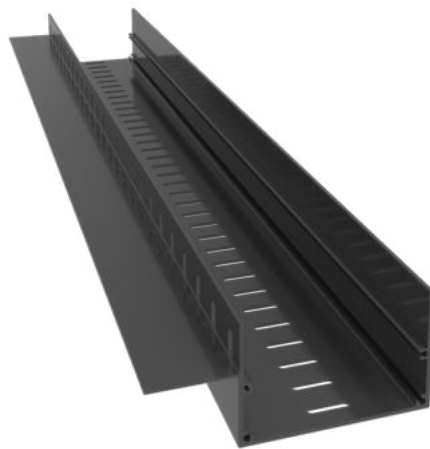


Brief installation instructions for
linear drainage for above-ground terraces in the system

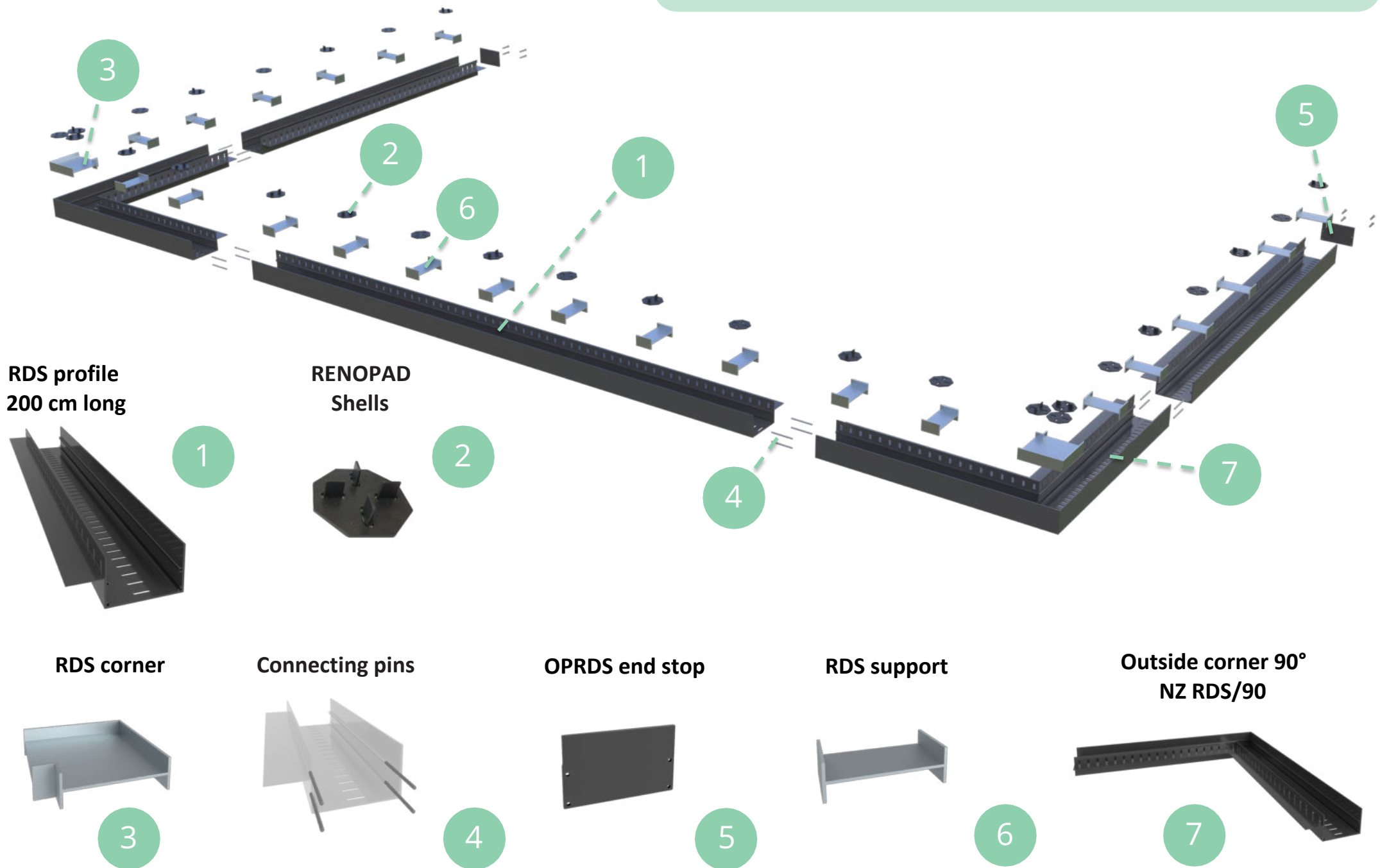
RENOPLAST RENODRAIN S

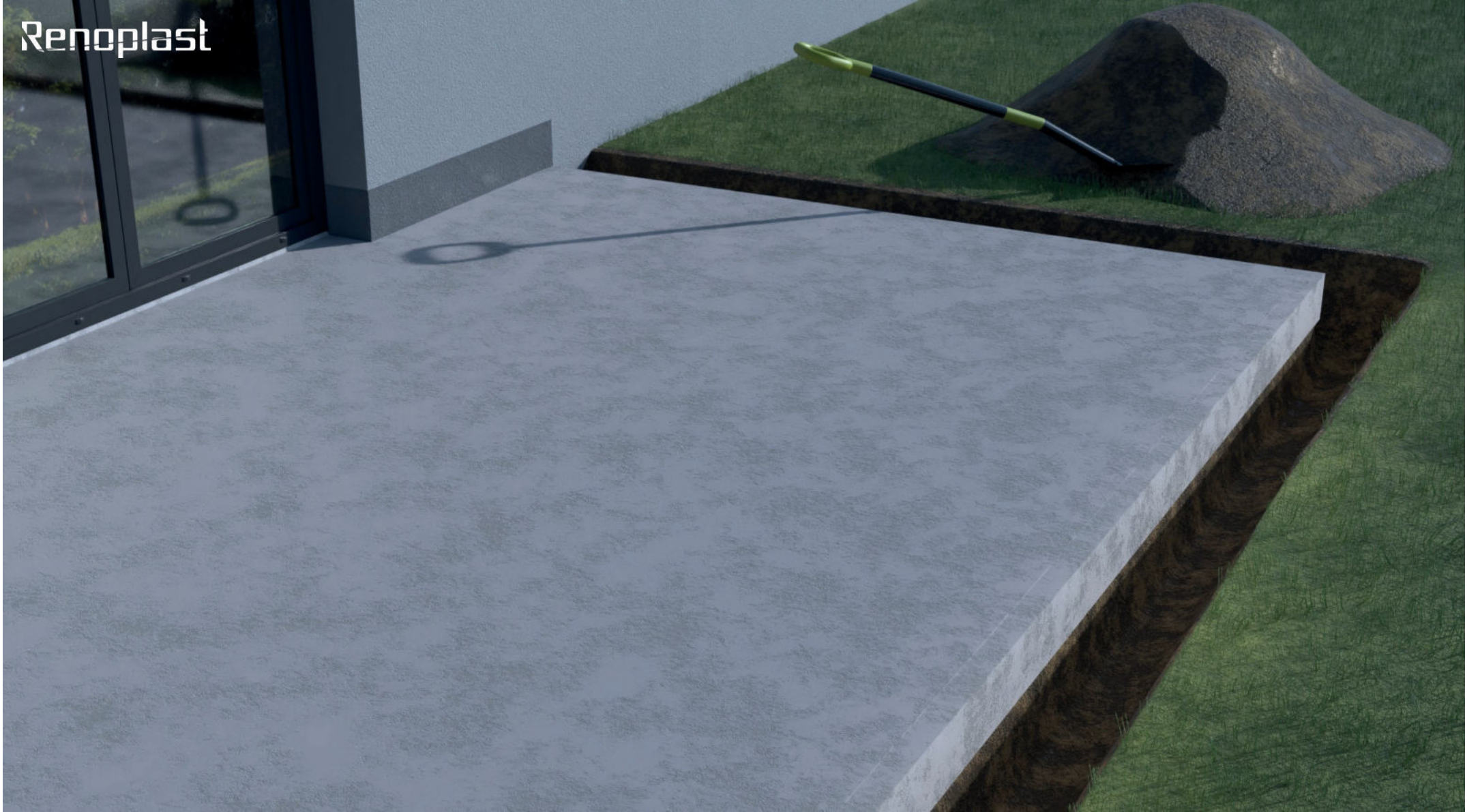




RENODRAIN S linear drainage systems enable the drainage of rainwater from the above-ground terrace with the floor ventilated, when the terrace is made at the level of the surrounding terrain. Innovative construction of drainage **RENODRAIN S**, causes full integration with the terrace floor, making it invisible, because the cover are made of floor slabs cut to the appropriate width.

Layout diagram of the elements of the RENODRAIN S system





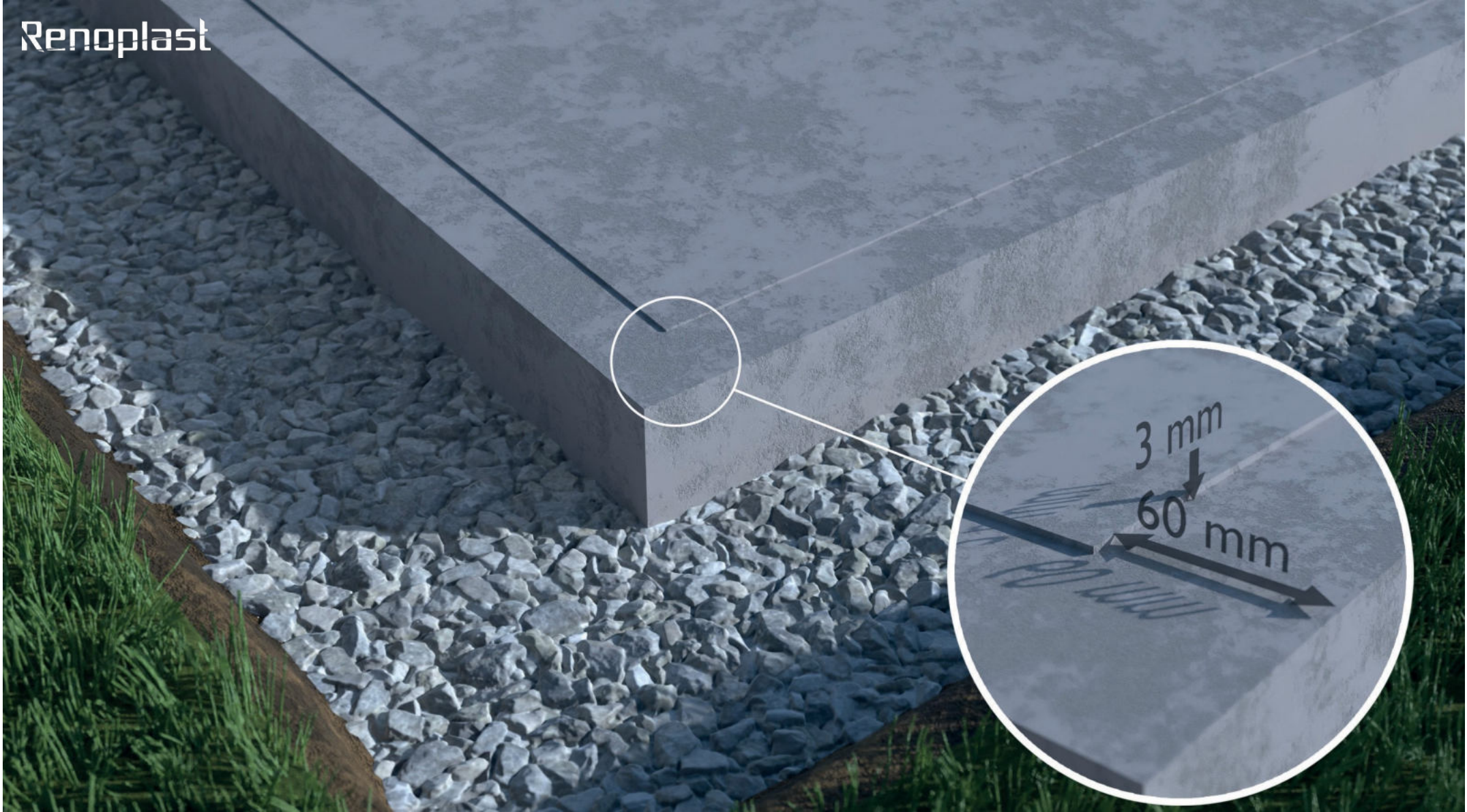
Underlay of floor layers of the above-ground terrace

The foundation should be even and load-bearing with a slope of 1.5 - 2% towards the drainage edge. Along the edge cement foundation, we make a linear trench with dimensions in cross-section - width of about 25-30 cm and depth on which we will lay the drainage around the terrace slab.



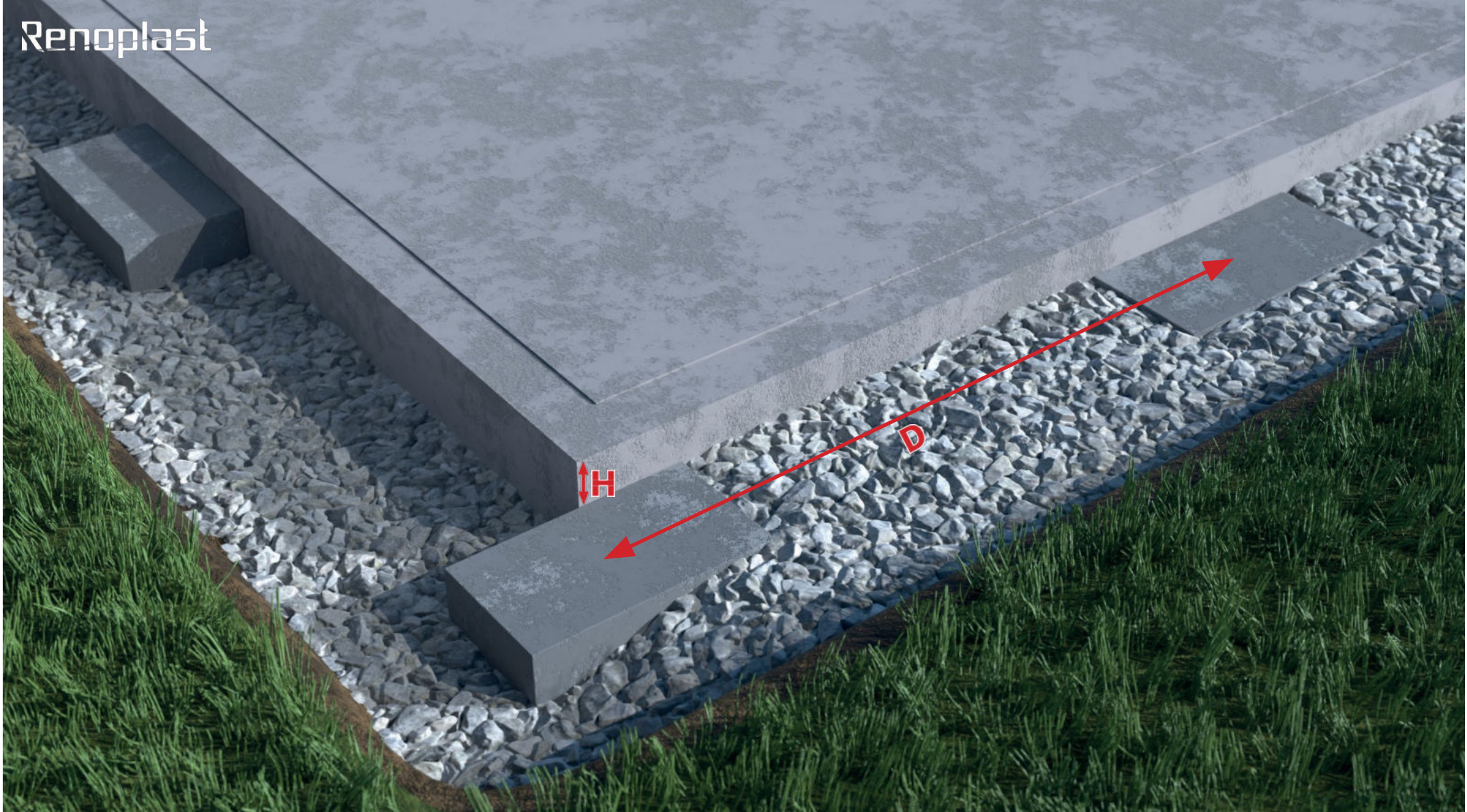
Construction of the drainage

In the completed linear excavation, the drainage is installed taking care of the proper slope of the drainage pipe using the correct aggregate to ensure effective drainage of rainwater into the sewer system.



Preparation of the edge of the terrace base

It is recommended that along the edge of the base, along the width of the installed **RENODRAIN S** linear drainage system, lowering the sleeper to a width of 60 mm and a depth of about 3 mm, so that the "fin" of fixing the linear drainage was flush with the ground plane.



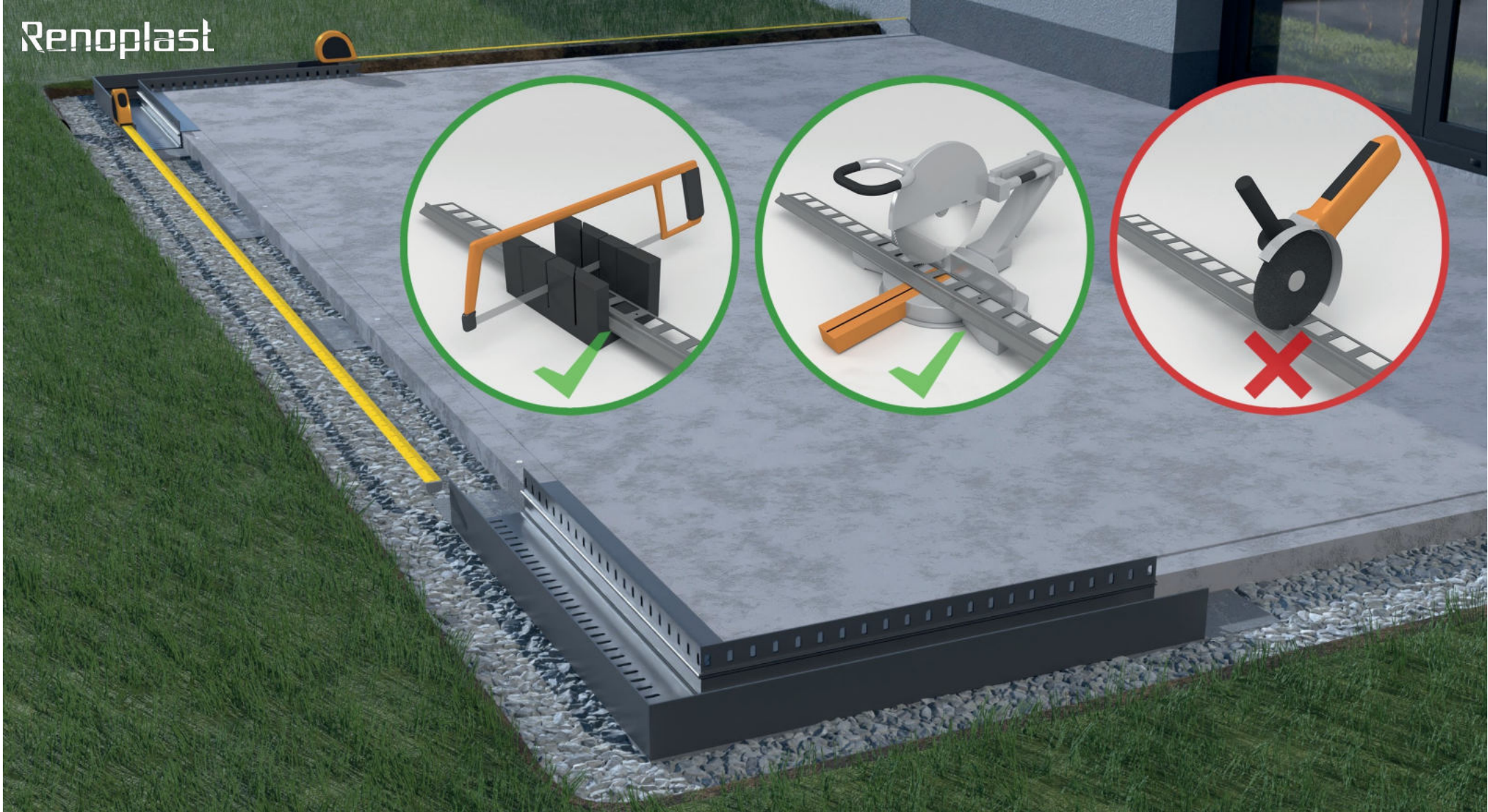
Preparation of support for RENODRAIN S channel.

Place concrete blocks (e.g. rectangular paving blocks) with a spacing of no more than 100 cm (D). Trench sections shorter than 100 cm should be supported at not less than 2 points.



Pre-assembly of the **RENODRIAN S 90** outside corners

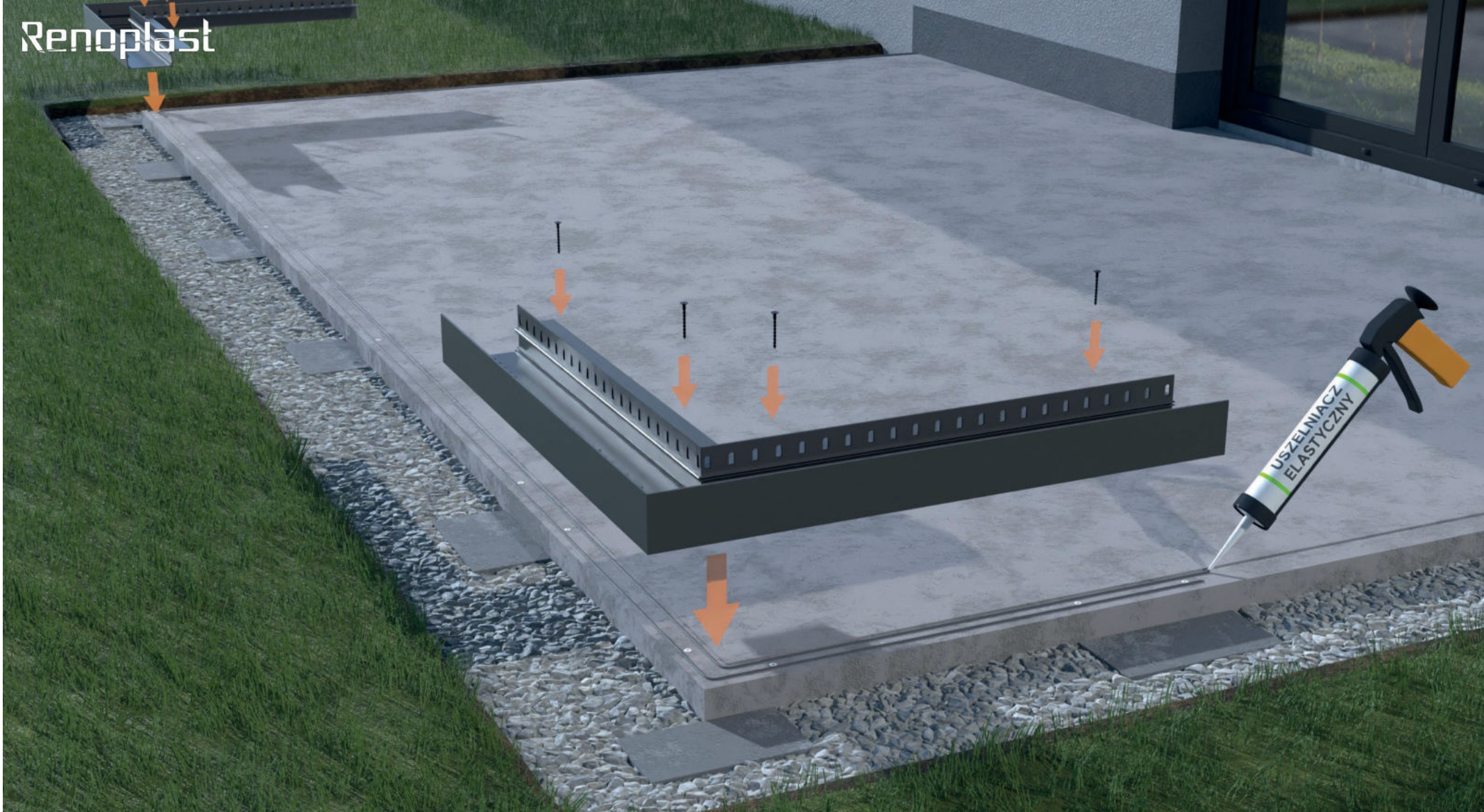
The work begins with pre-assembling the **RENODRIAN S 90** outside corners using the wall plugs.



Preparation of the RENODRAIN S trough

The next step is to measure the straight sections of the trough for preparation (trimming). The troughs should be prepared in such a way that expansion gaps of approx. 2 mm are left at the joints, and a space for the ends at the wall. The profiles should be cut with a hand-held metal saw or a mechanical with a suitable blade for cutting aluminium. Cutting with other tools may damage the paint finish, which is not acceptable.

Renoplast



Installation of RENODRAIN S 90 outside corners

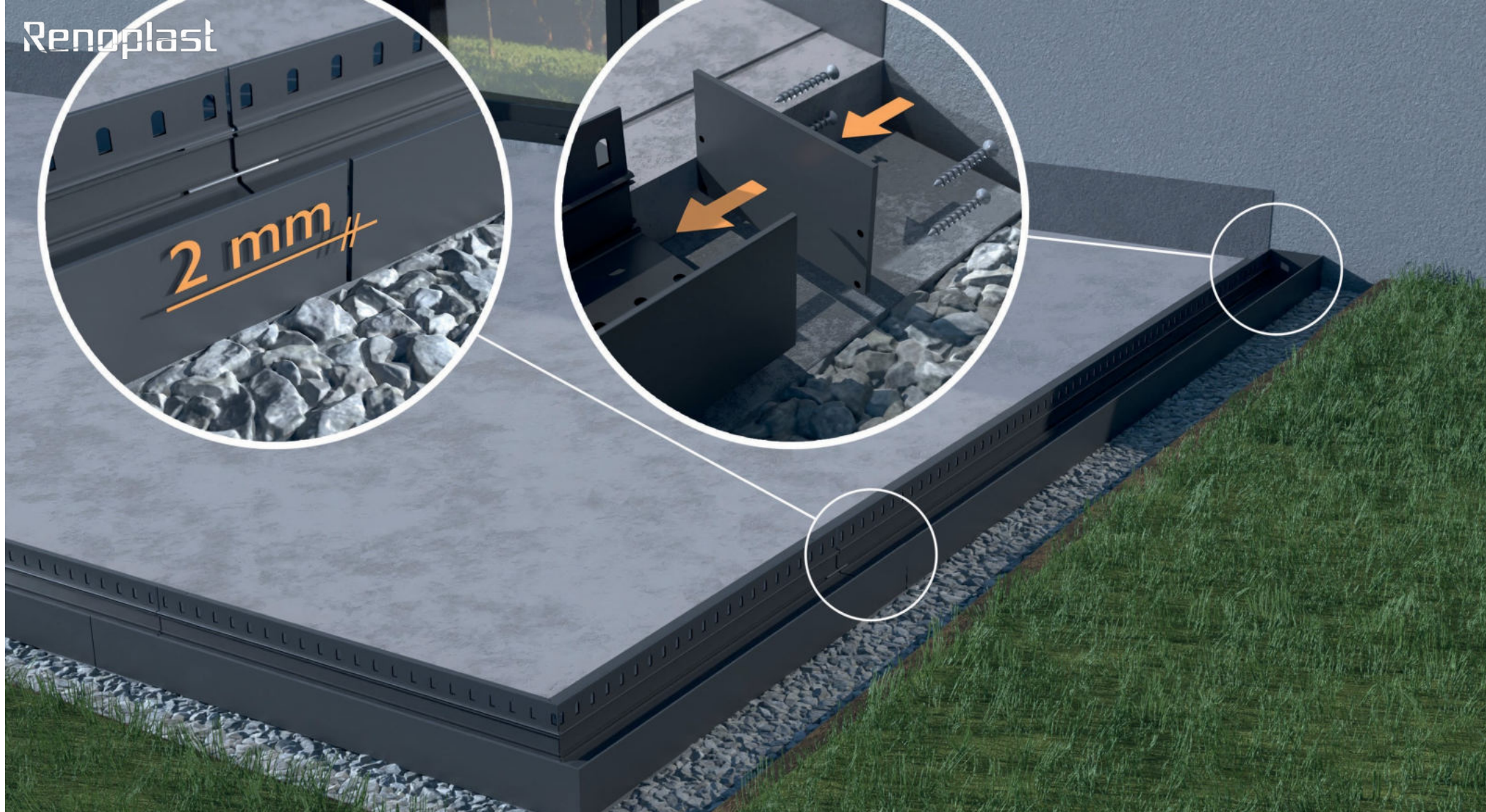
The **RENODRAIN S 90** outside corners are placed on the elastic mass (e.g. polyurethane) and then fastened mechanically using the previously set wall plugs.



Installation of RENODRAIN S channels

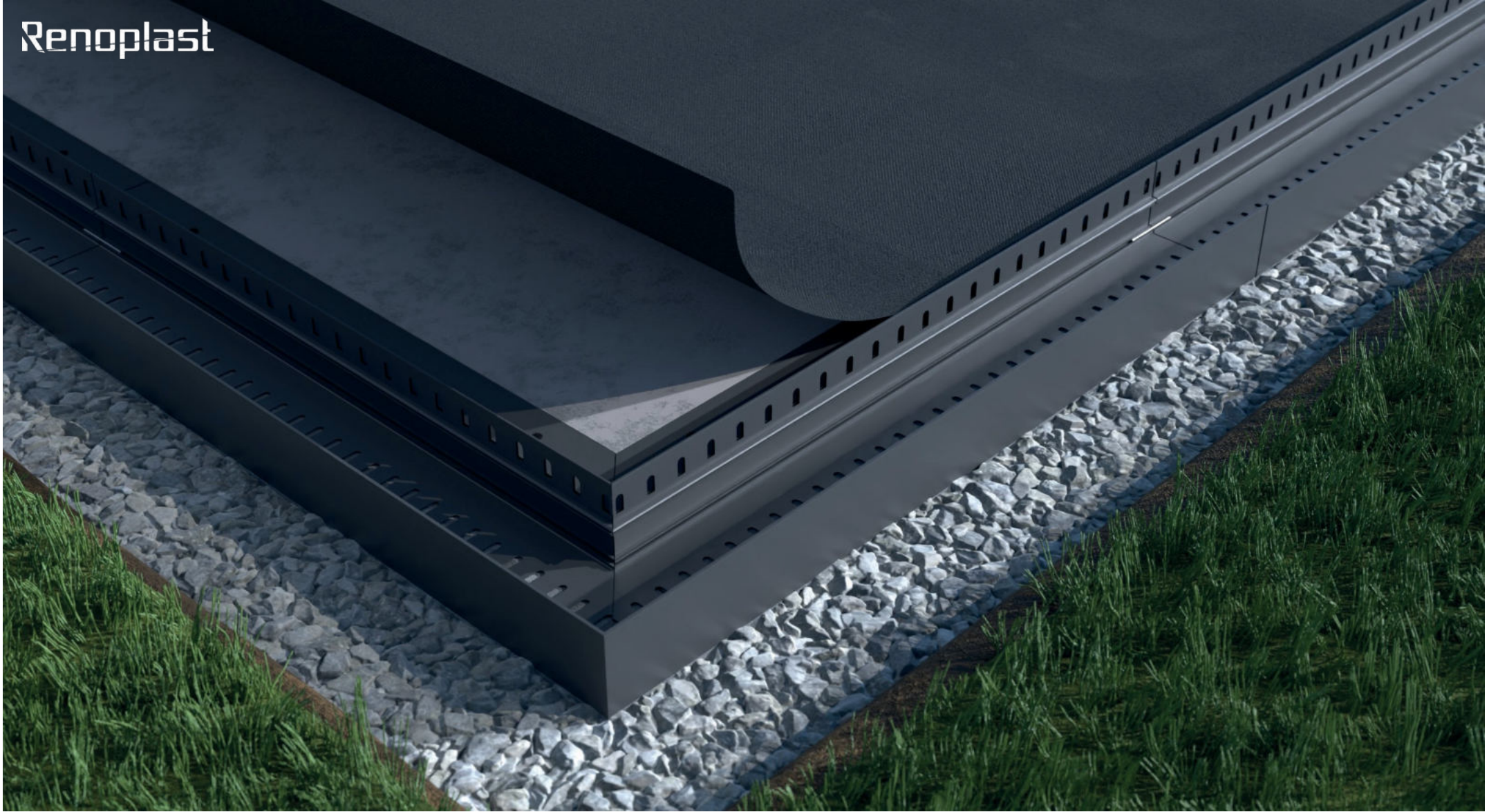
RENODRAIN S 90 channels are fitted in the same way as the outside corners. Using a string and a spirit level between the corners, make sure they are installed evenly. Apply sealing compound to the joints on the inside of the channel.

Renoplast



Installation of detailed elements

Channels and corners are connected by means of metal connecting bolts (bolts included). The ends are screwed to the channel with 4 screws before installation on the terrace.



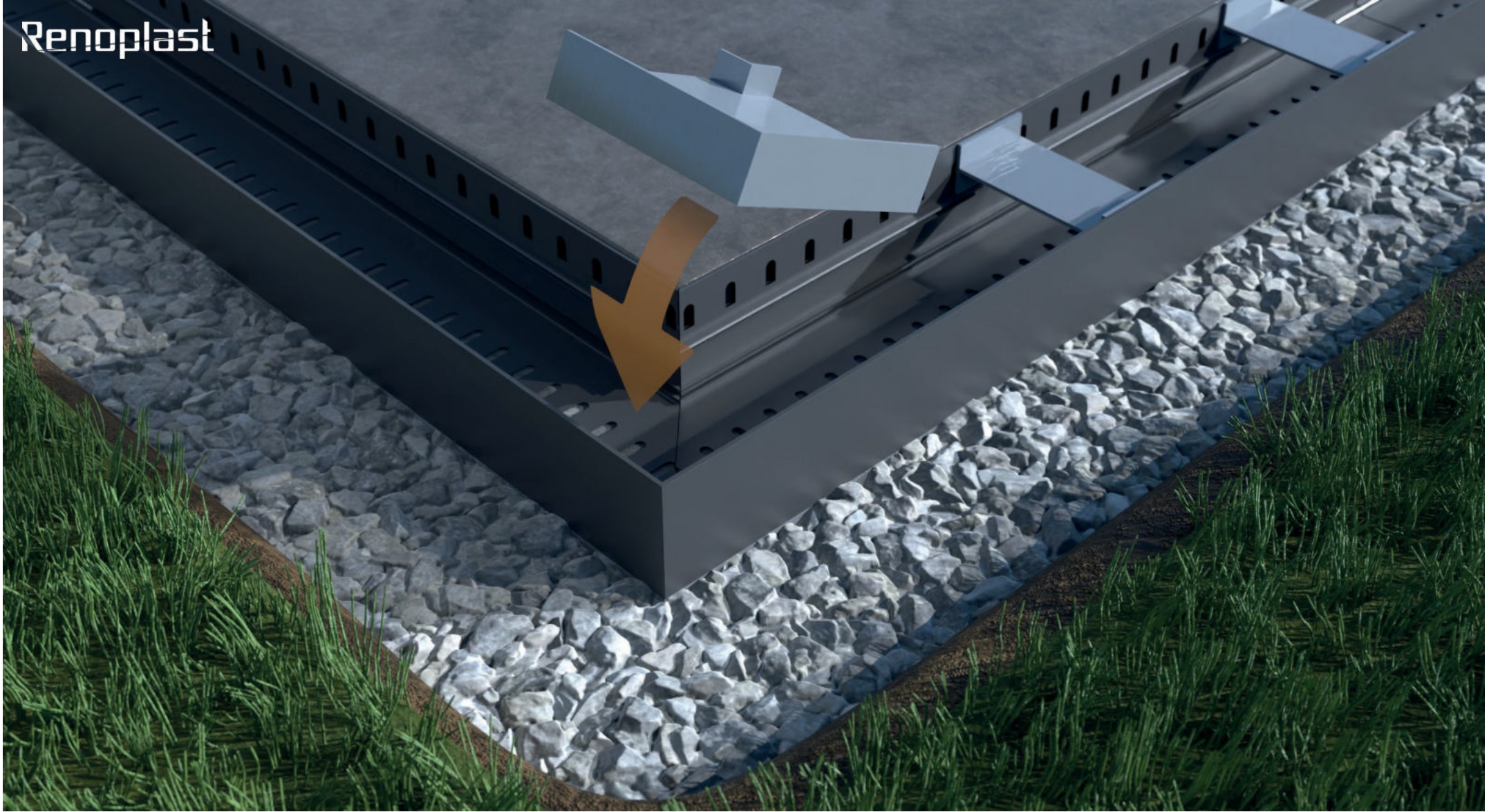
Execution of a waterproofing layer

The next step is to make waterproofing. Depending on the material used (**EPDM**, PVC, asphalt roofing felt, resin), lay the insulation in accordance with the manufacturer's instructions.



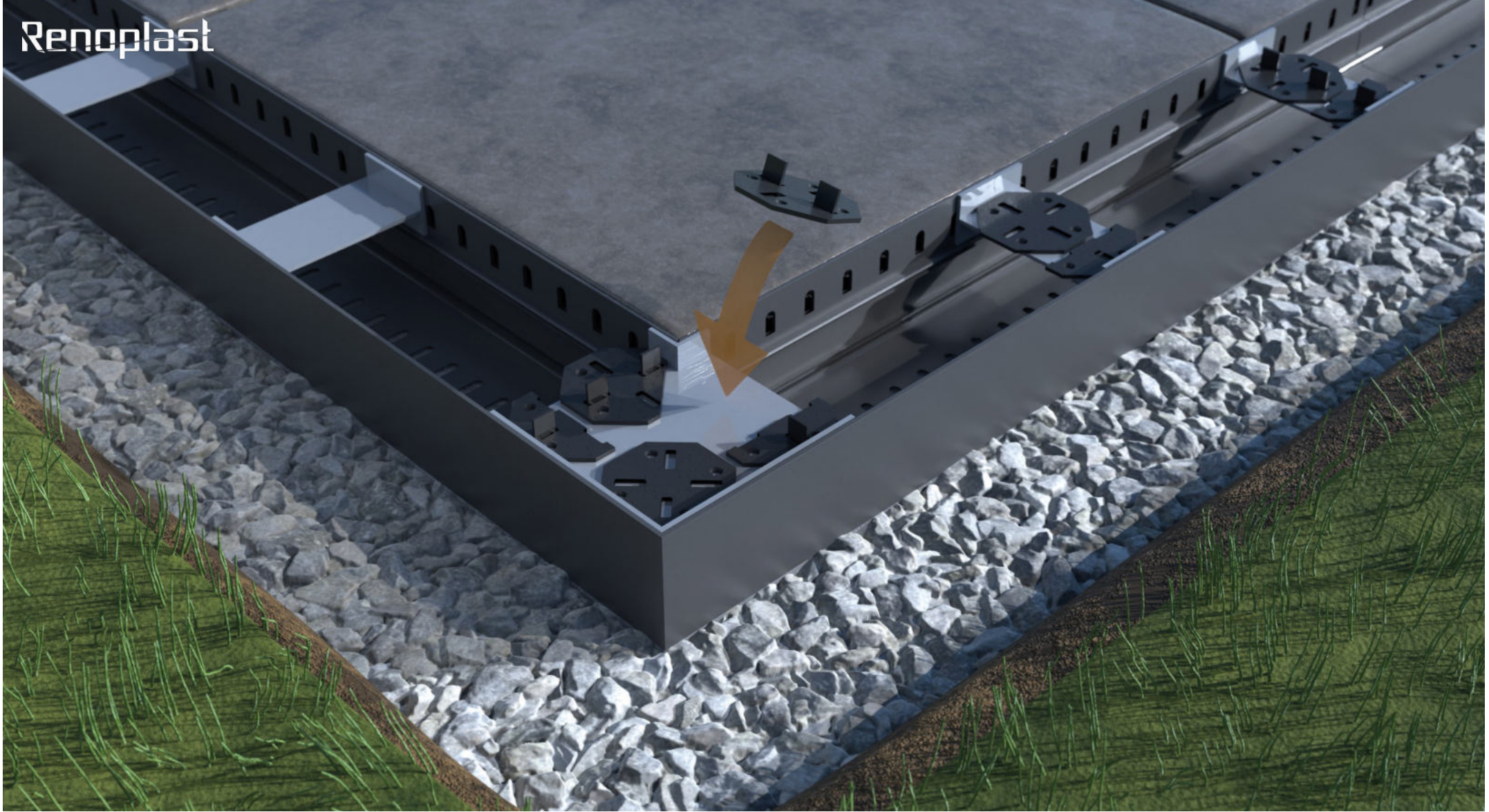
Laying floor slabs on SMART pads

Floor slabs are laid on **SMART** pads. The places of supporting the slabs depend on the size of the floor slabs. An exemplary support for **60x60** cm boards is shown in the drawing above. To level unevenness the substrate in the places where the floor slabs are supported is used with spacers with a thickness of **0.5; 1; 2** or **3**mm.



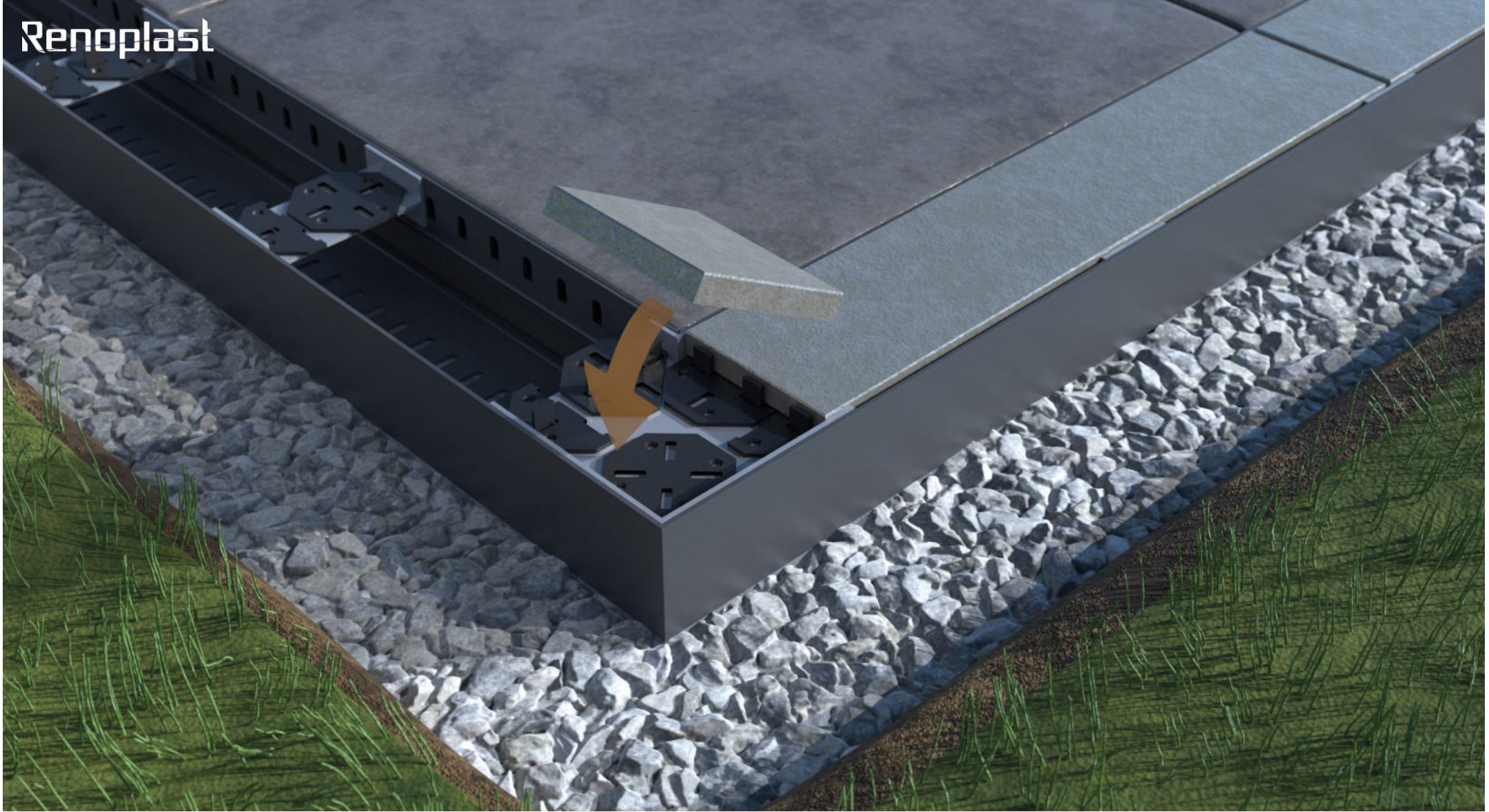
Installation of the **RENODRAIN S SUPPORTS**

We embed **RENODRAIN S 90 SUPPORTS** and **RENODRAIN S SUPPORTS** in the cable drainage. Place the **SUPPORTS** at a centre distance of 30 cm for slabs 2 cm thick.



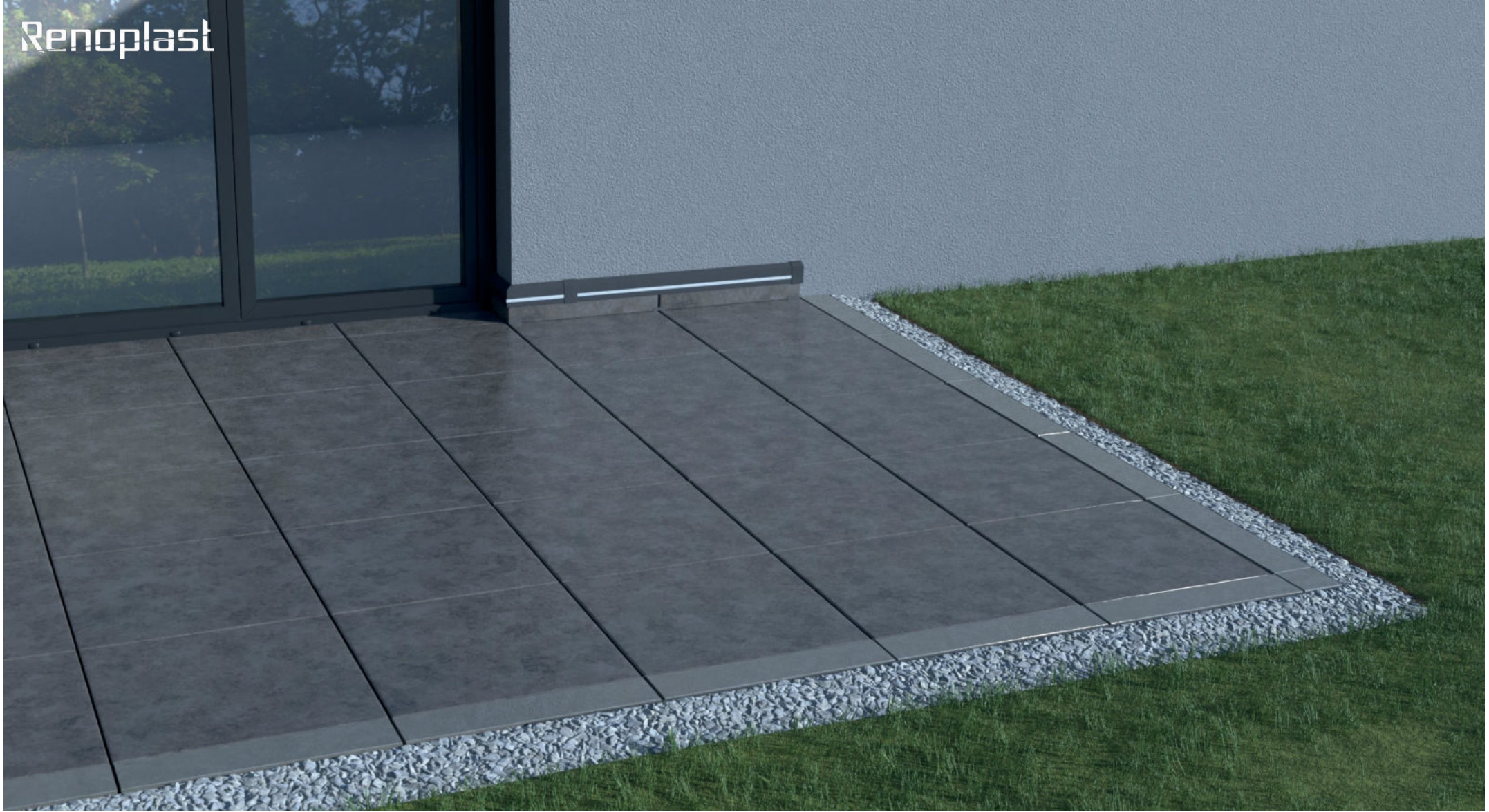
Laying RENOPAD SHELLS for ceramic tiles

Lay the **RENOPAD SHELLS** on the **SUPPORTS**, removing the vertical flanges as necessary. The **SHELLS** can optionally be screwed to the **SUPPORTS**.



Laying the ceramic slabs in the RENODRAIN S CHANNEL

Lay the cut terrace slabs on the **RENODRAIN S CHANNEL**, on **RENOPAD** pedestals.



Leveling the surface of the excavation with aggregate

The final step is to level the surface by backfilling the trench with aggregate to the level of the top edge of the **RENODRAIN S** drainage system.