

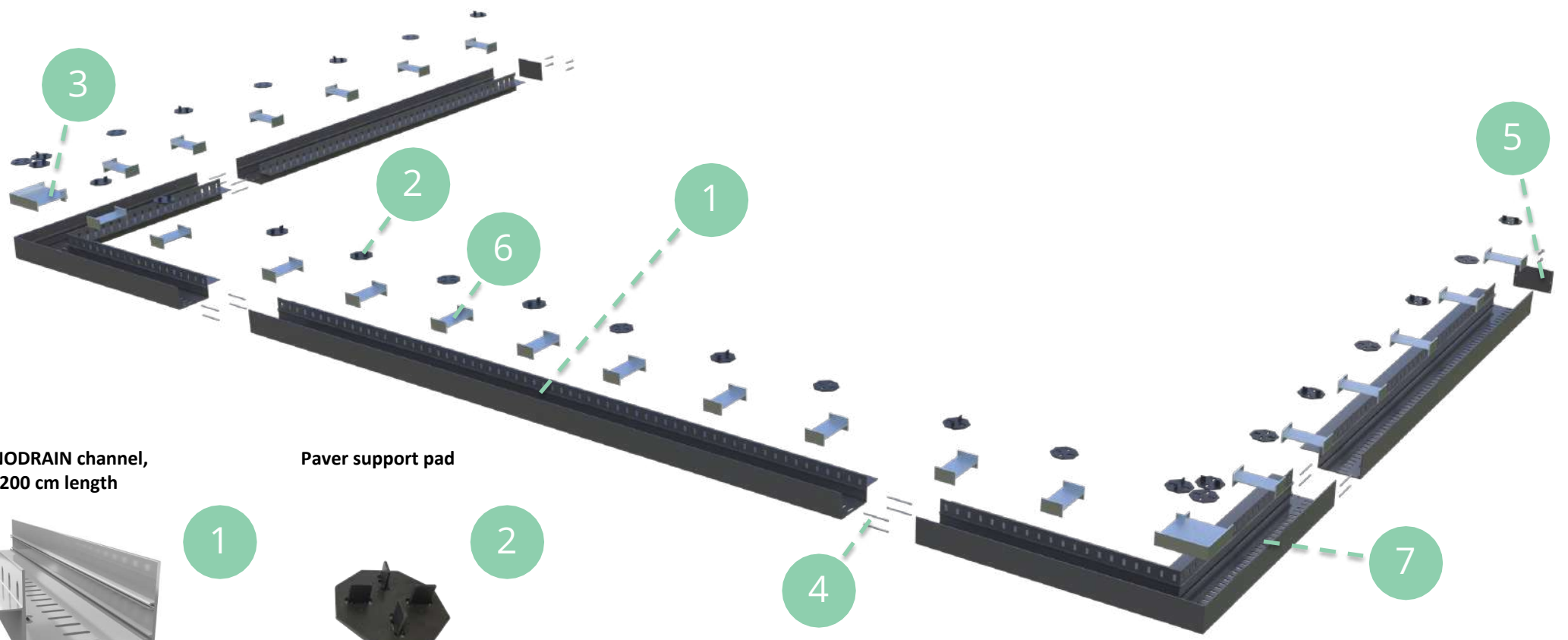
# RENODRAIN S patio channel drainage system installation guide



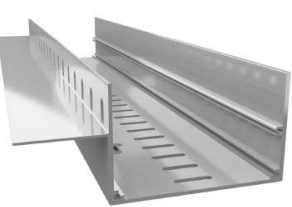


**RENODRAIN S** channel drainage system is designed to efficiently evacuate rainwater from on-grade patios with pedestal paving. The channels are covered with cut-to-size pavers, giving a uniform surface, fully integrated with the adjacent patio paving system.

# Placement of RENODRAIN S system components



RENODRAIN channel,  
200 cm length



Paver support pad



RENODRAIN S 90 universal  
(internal/external)  
corner cover support



stainless steel slide-in  
connector



RENODRAIN  
R+L stopends

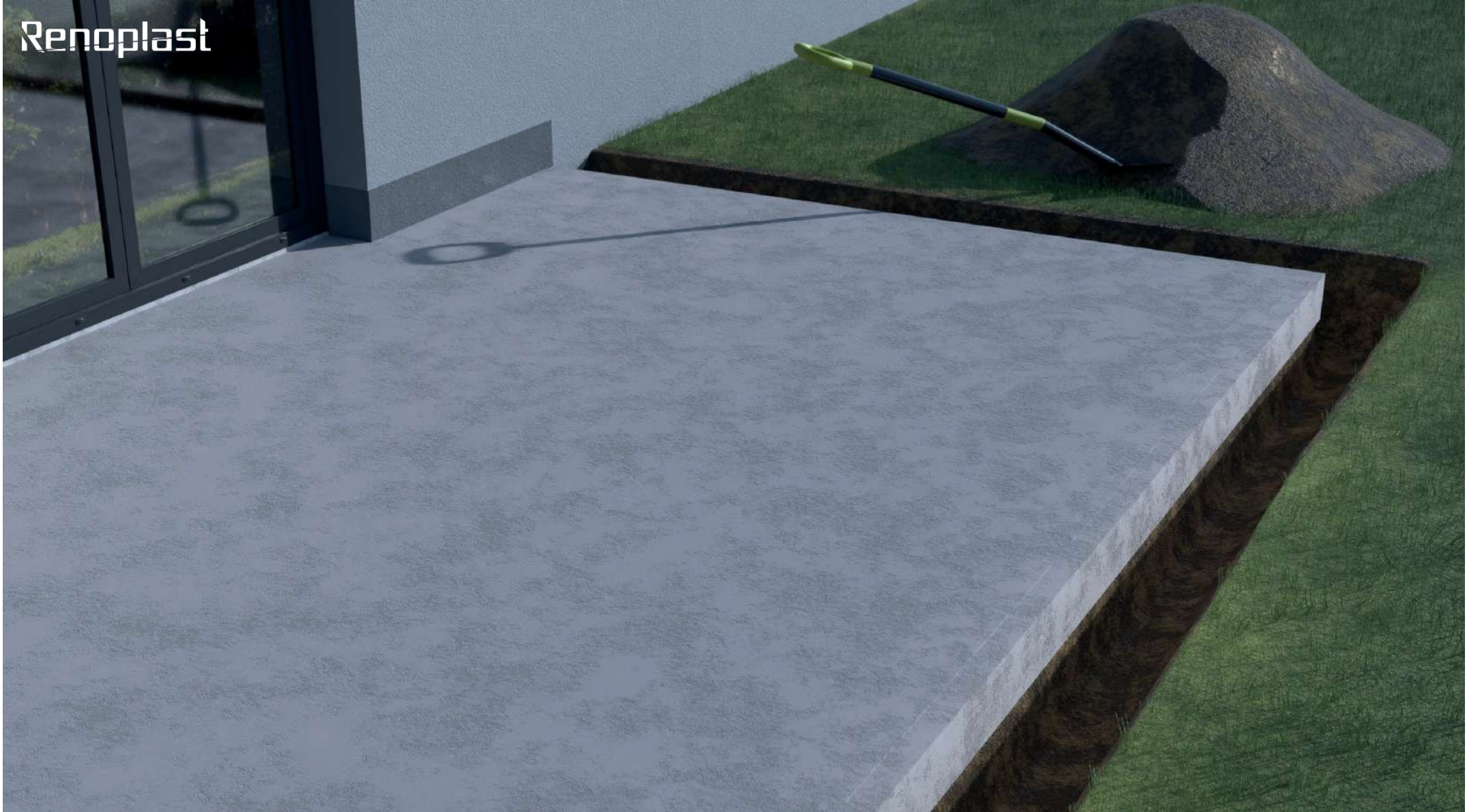


RENODRAIN S  
cover support, 6cm



External corner  
RENODRAIN 90





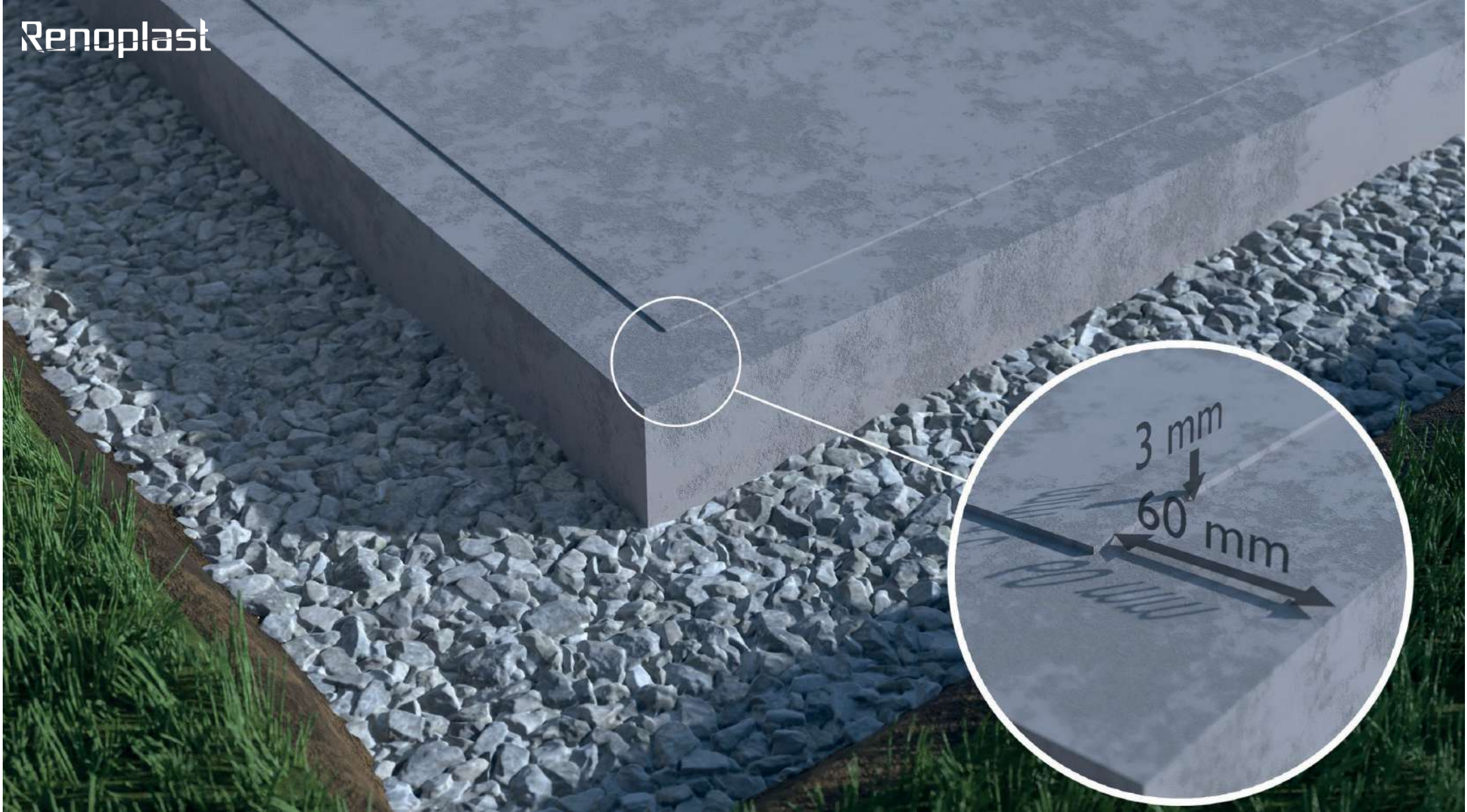
## On-grade patio screed layer

The screed layer should be sound and even, sloping 1.5– 2% towards drainage channels. Along the screed perimeter dig a 25-30 cm wide trench to depth sufficient to accommodate aggregate bed and channels.



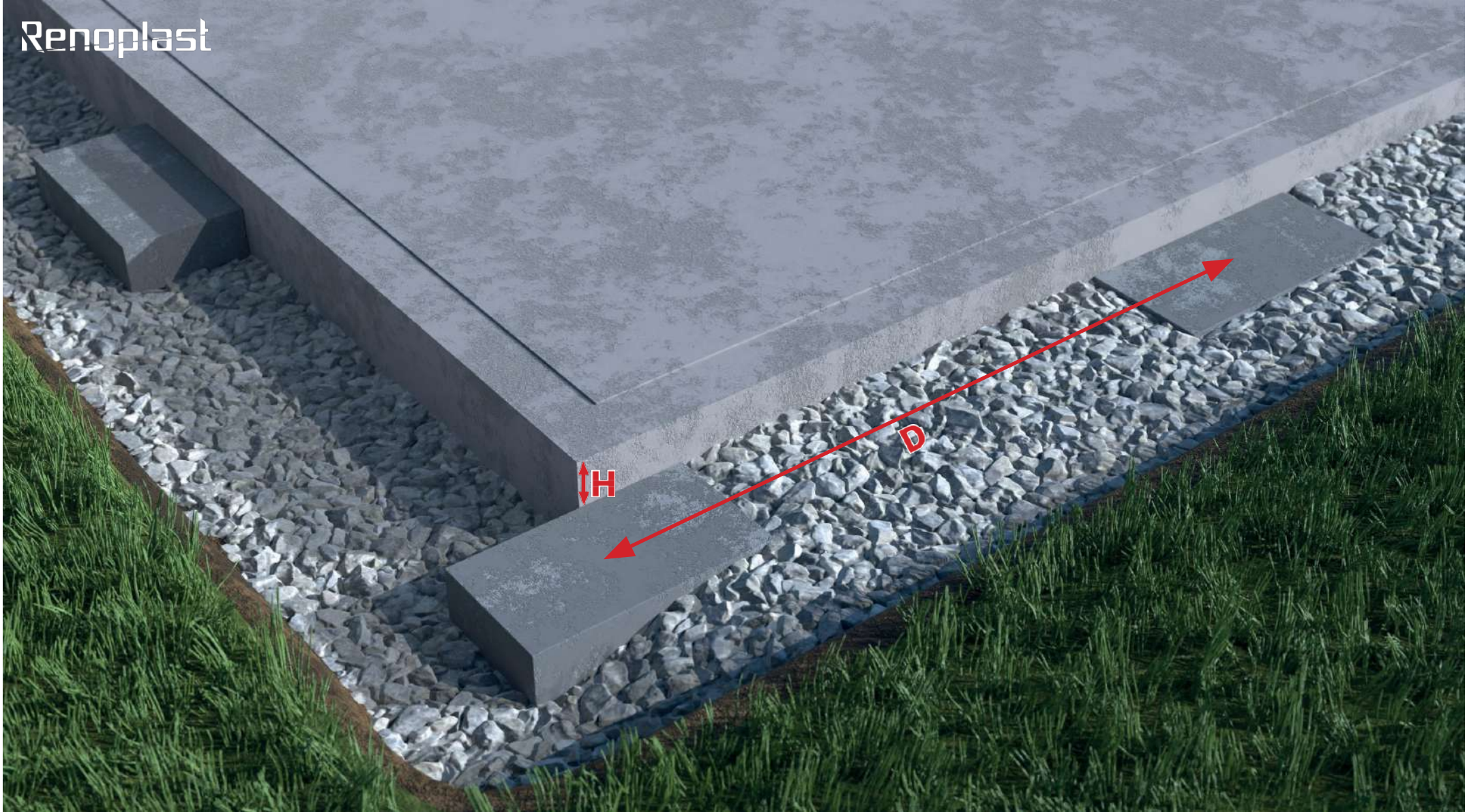
### Subsurface drainage installation

In the trench lay drain pipe encased in appropriate aggregate to collect and discharge rainwater to sewer.



### Preparation of screed edge for RENODRAIN S channel drainage installation

As far as practicable, a 60 mm wide by ca. 3 mm deep recess should be made in the screed to allow setting the channel flange edge flush with the screed top surface.



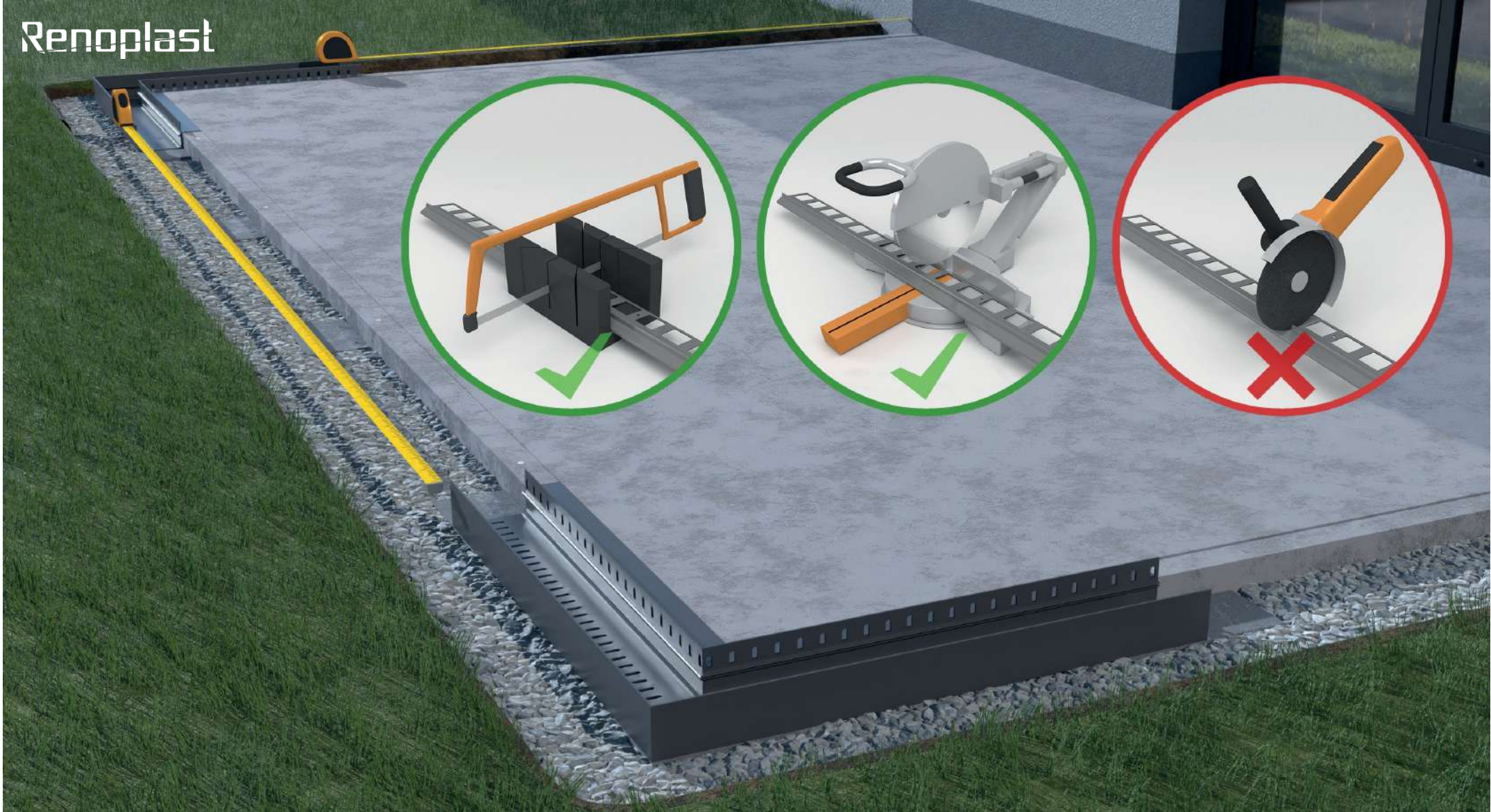
## RENODRAIN S footing installation

Footing for **RENODRAIN S** channels is made of concrete blocks (such as block pavers) placed at max. 100 cm (**D**) intervals in aggregate bed and reaching up to 8-8,5 cm (**H**) below the screed top surface level.



### **Pre-fitting RENODRAIN 90 external corners**

Installation starts with pre-fitting external channel corners with plastic plugs.



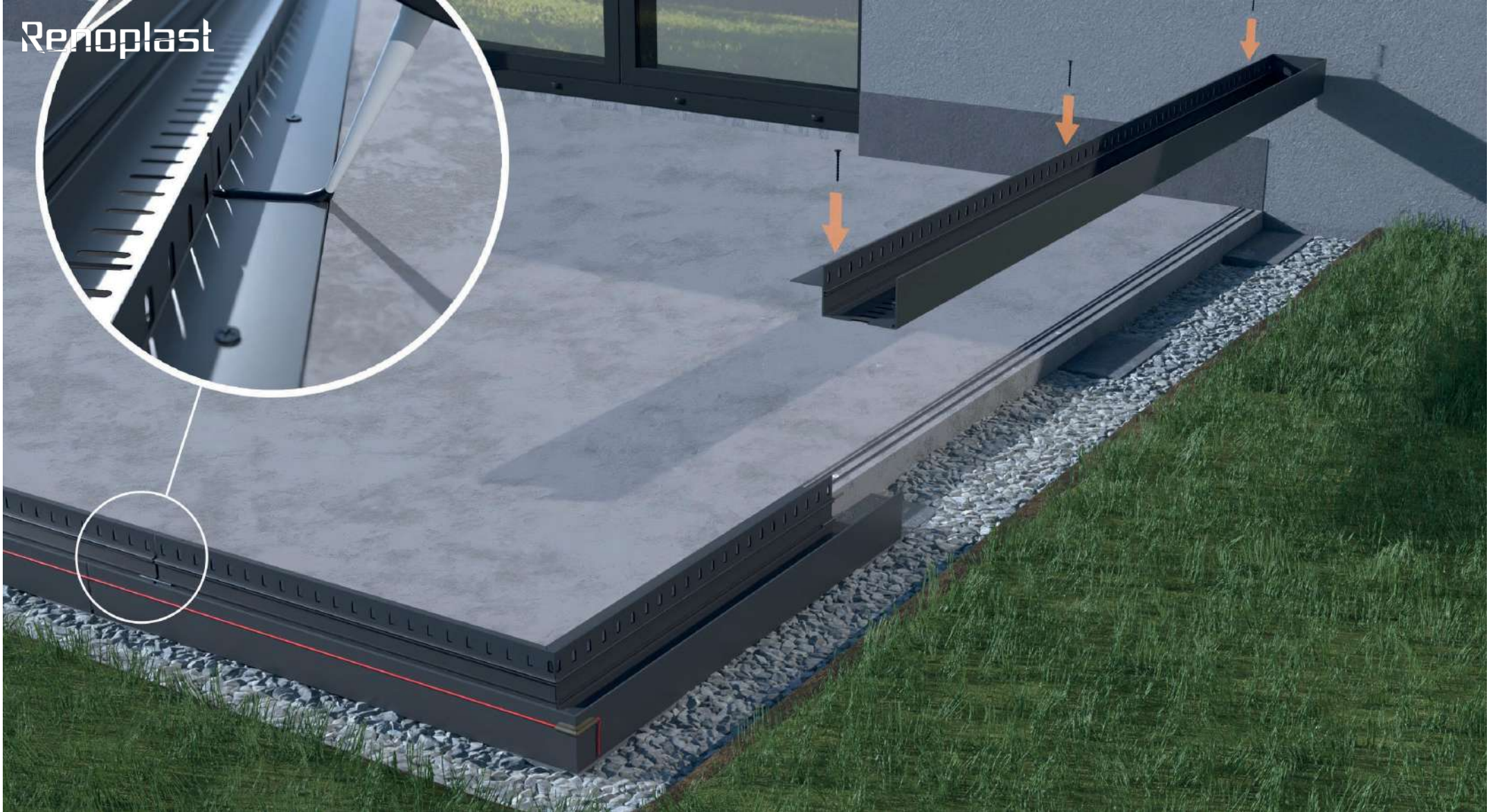
## RENODRAIN channel preparation

Measure straight lengths to cut the channels to the required length. Allow for ca. 2 mm wide expansion joints between adjacent channels. At walls leave sufficient space for fitting channel end caps. For cutting use a metal handsaw or a circular saw equipped with an aluminium cutting disc. Other tools may damage the paint coat, which is considered unacceptable.



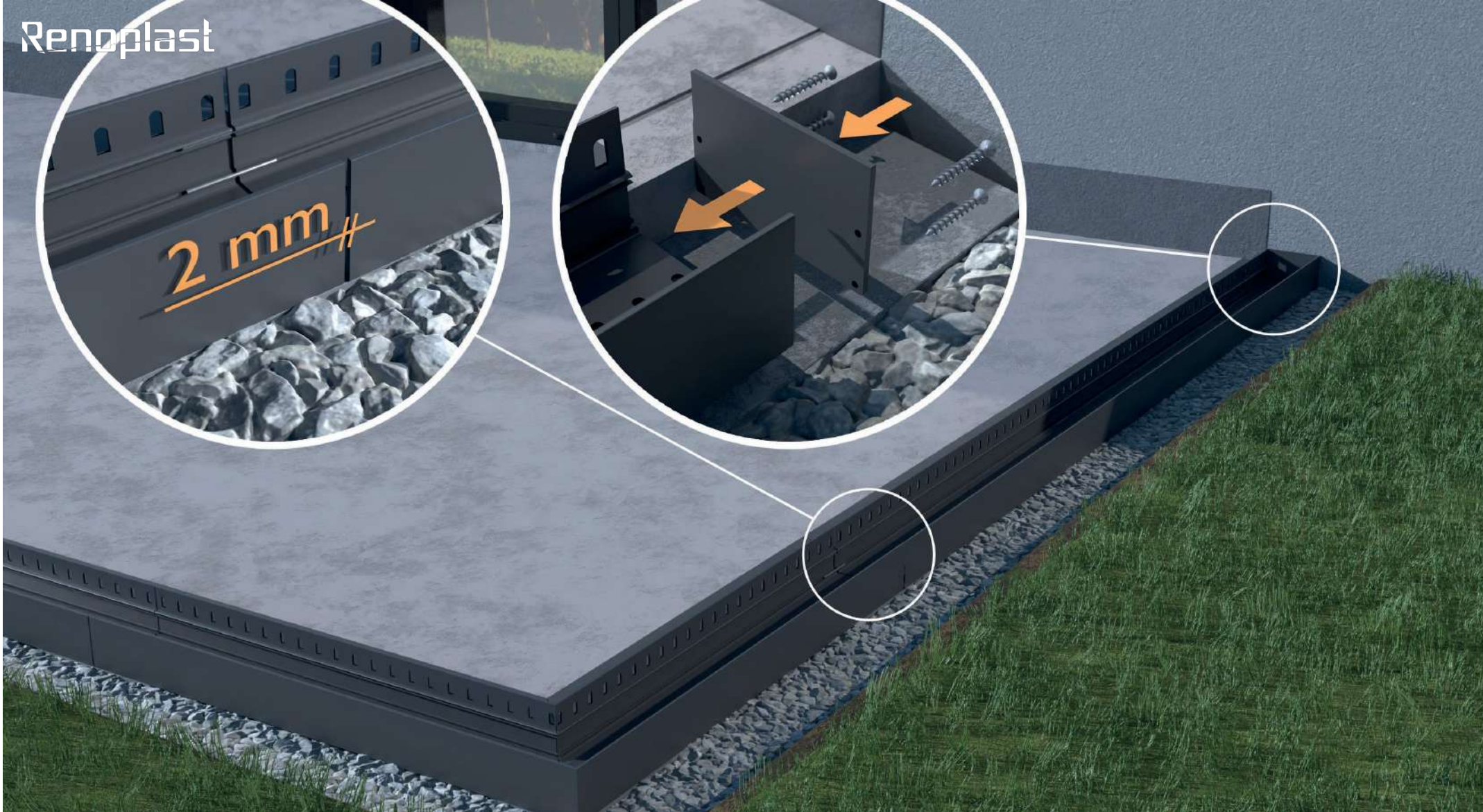
### Fixing of 90 external corners

External corners should be bedded on elastic (such as polyurethane) sealant and fixed with the pre-installed plastic plugs.



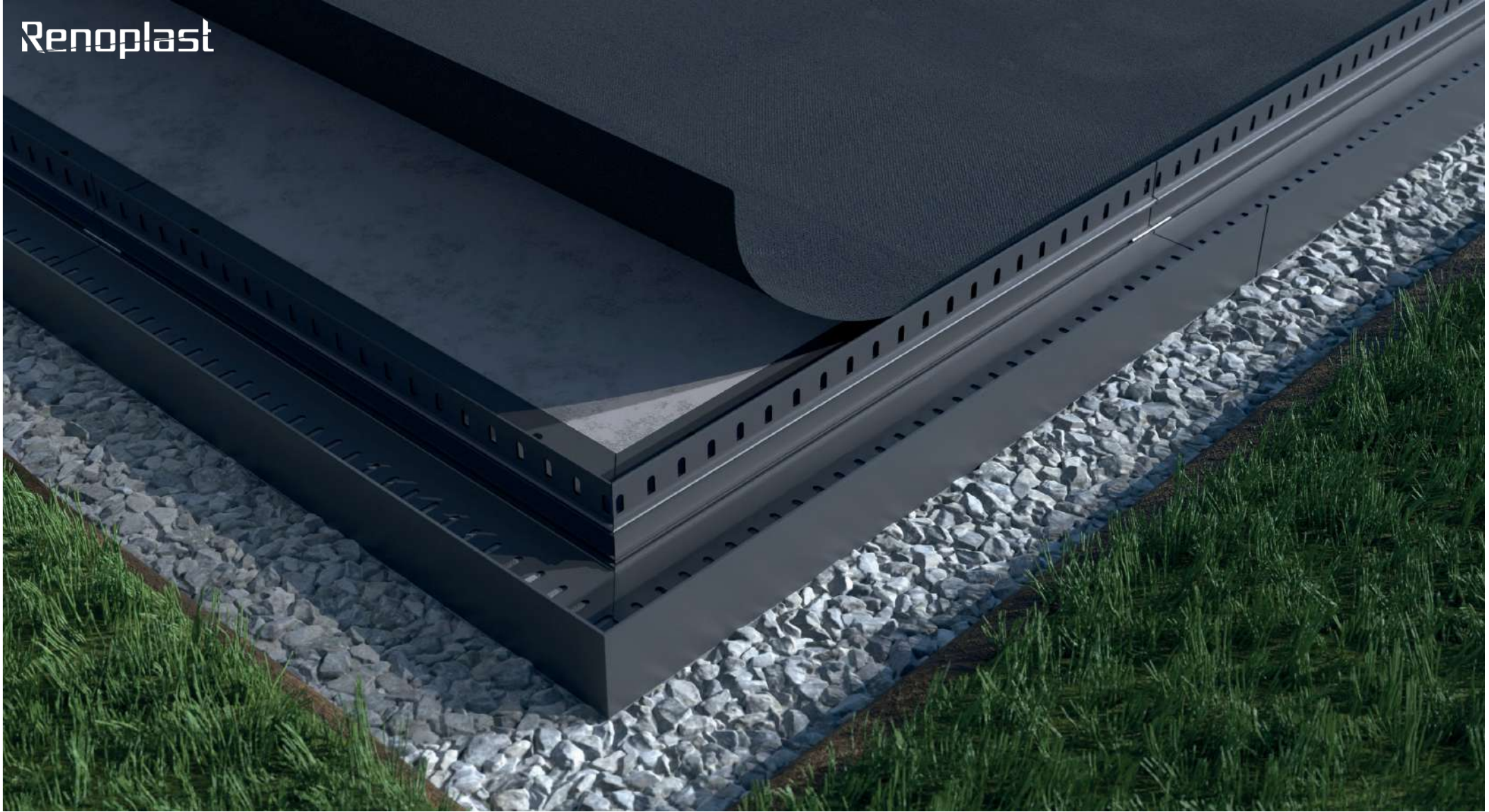
### Installation of RENODRAIN channels – laying

Straight channels are fitted in the same way as corners. Use a string line stretched between adjacent corners and a spirit level to ensure straight and level alignment. Adjacent channels are connected together using the supplied steel slide-in connector inserted in factory made holes.



### Installation of RENODRAIN channels – finishing

Fix the channels to the cement screed by tightening the plug screws. End sections should be closed with screw fixed end caps before installation.



## Waterproofing installation

Waterproofing layer is laid on the screed surface as the next step. During installation of the chosen waterproofing material (**Renoplast EPDM membrane** or PVC membrane or bitumen felt) follow the relevant manufacturer's guidelines.



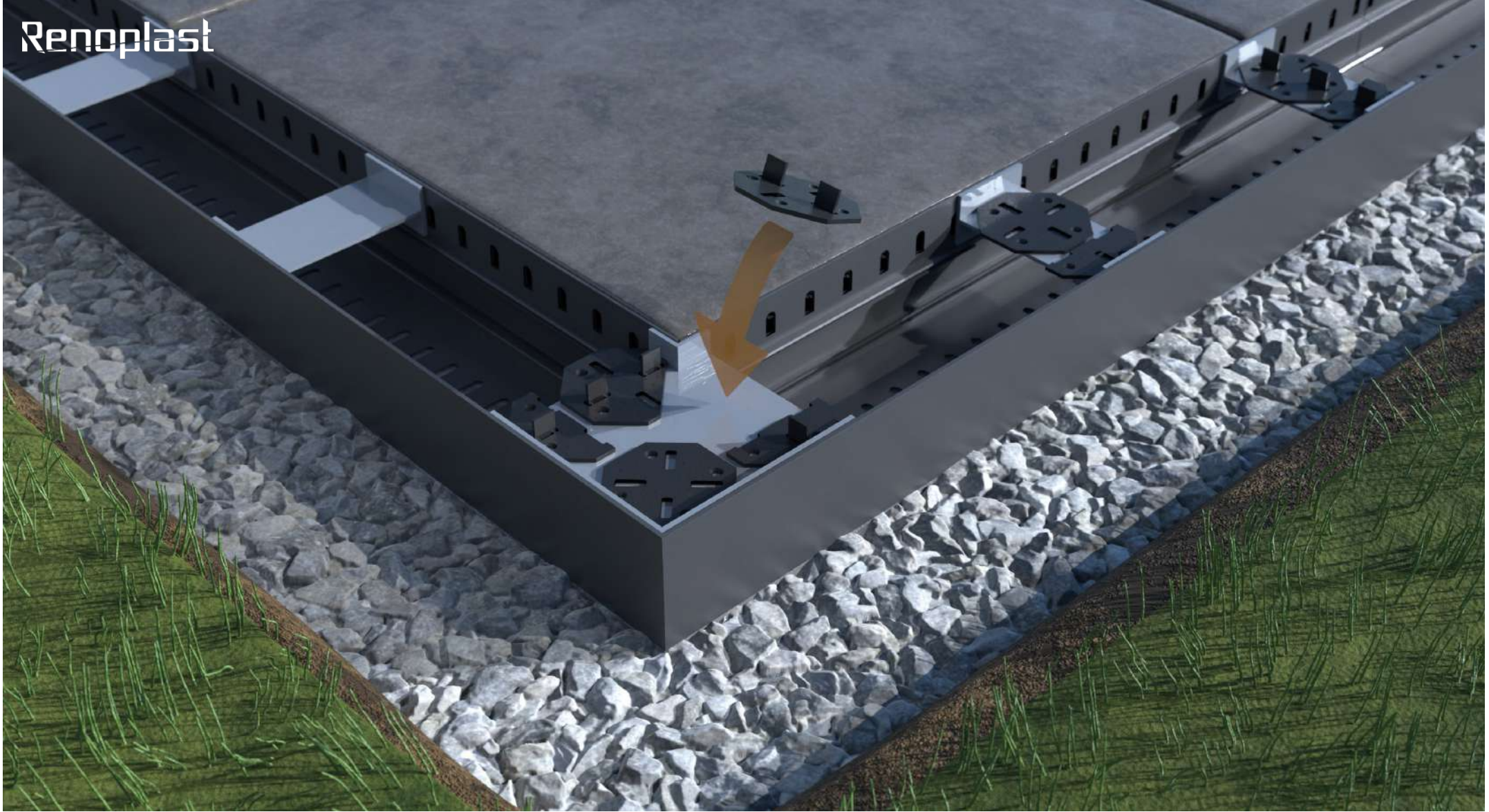
### Paving with the use of SMART pedestals

Porcelain pavers are placed on **SMART** pedestals. The layout of pedestals should be appropriate to the size of the chosen pavers. The picture above shows an example layout of support points of pedestal floor made of 60x60 cm slabs. Use 0.5, 1, 2 and 3 mm thick levelling discs to level out base depressions.



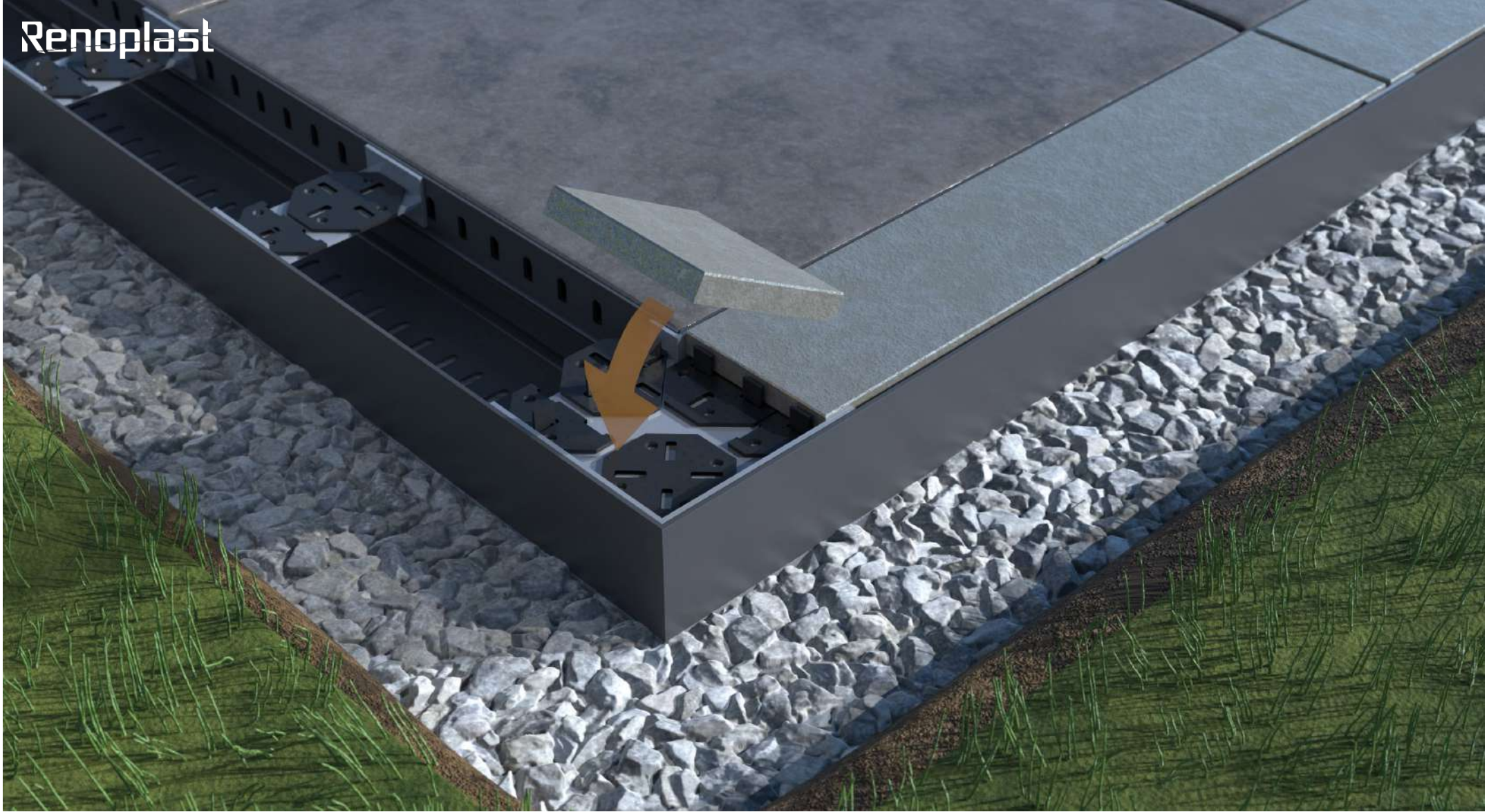
## Fitting RENODRAIN S 90 corner cover supports

Inside the installed channels fit straight and corner channel cover supports designed to support covers of 2 cm standard thickness. The channel cover supports should be placed at 30 cm centres.



## Placing paver support pads

Place support pads on the channel cover supports, removing spacer tabs if and as required. The pads may be fixed to the cover supports with screws.



**Placing cut-to-size porcelain pavers as channel covers**

The cut-to-size porcelain pavers are laid on channel cover supports.

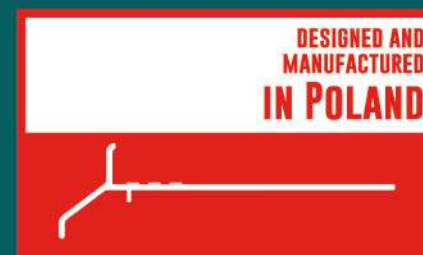


### Backfilling the trench with aggregate

Finally the trench should be backfilled with aggregate up to the channel drainage top edge **RENODRAIN S**.



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