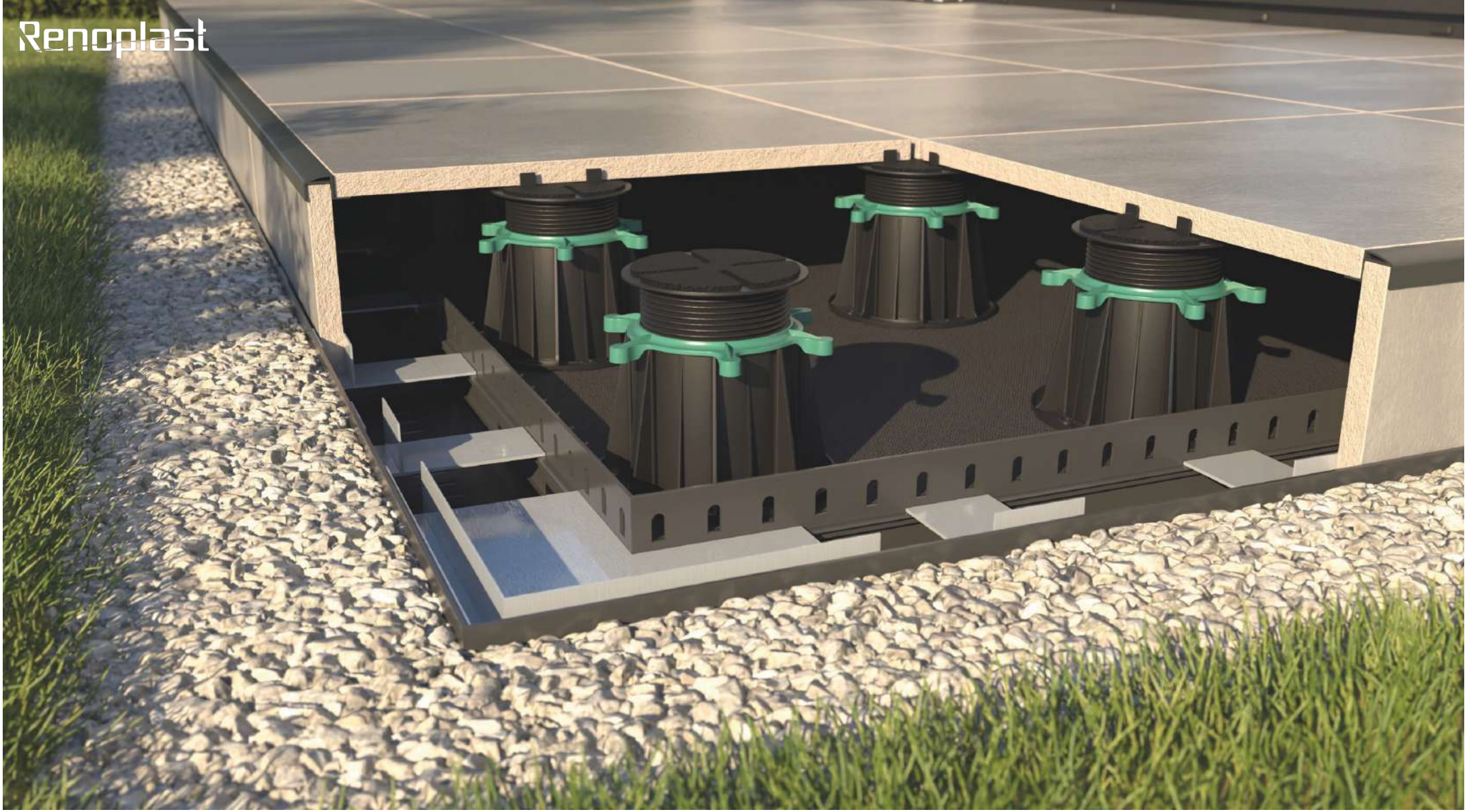


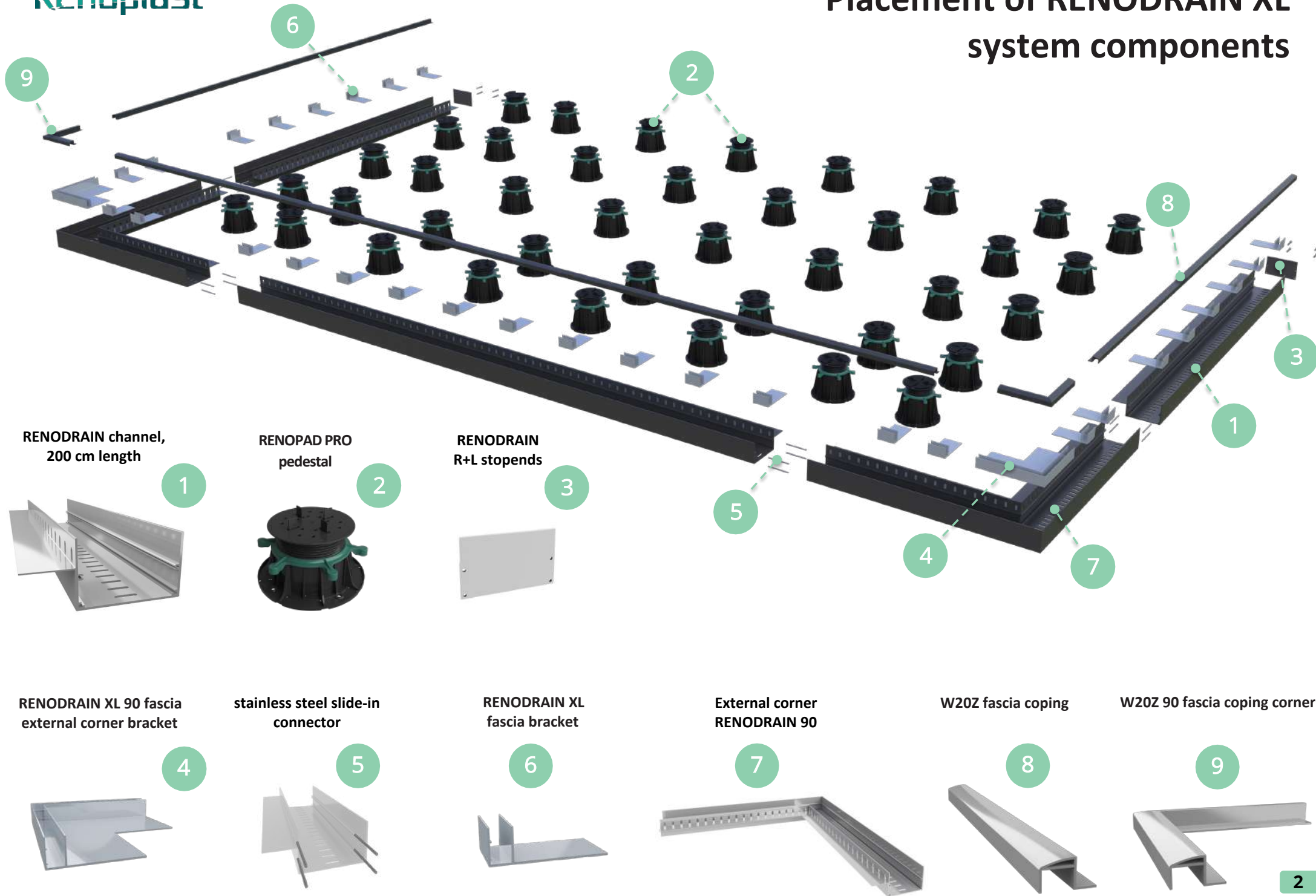
RENODRAIN XL patio channel drainage system installation guide





RENODRAIN XL patio channel drainage system has been designed for patios with pedestal floors raised above the underlying on-grade structural slab. Besides efficient evacuation of rainwater **RENODRAIN XL** system offers neat finishing of patio fascia surfaces.

Placement of RENODRAIN XL system components





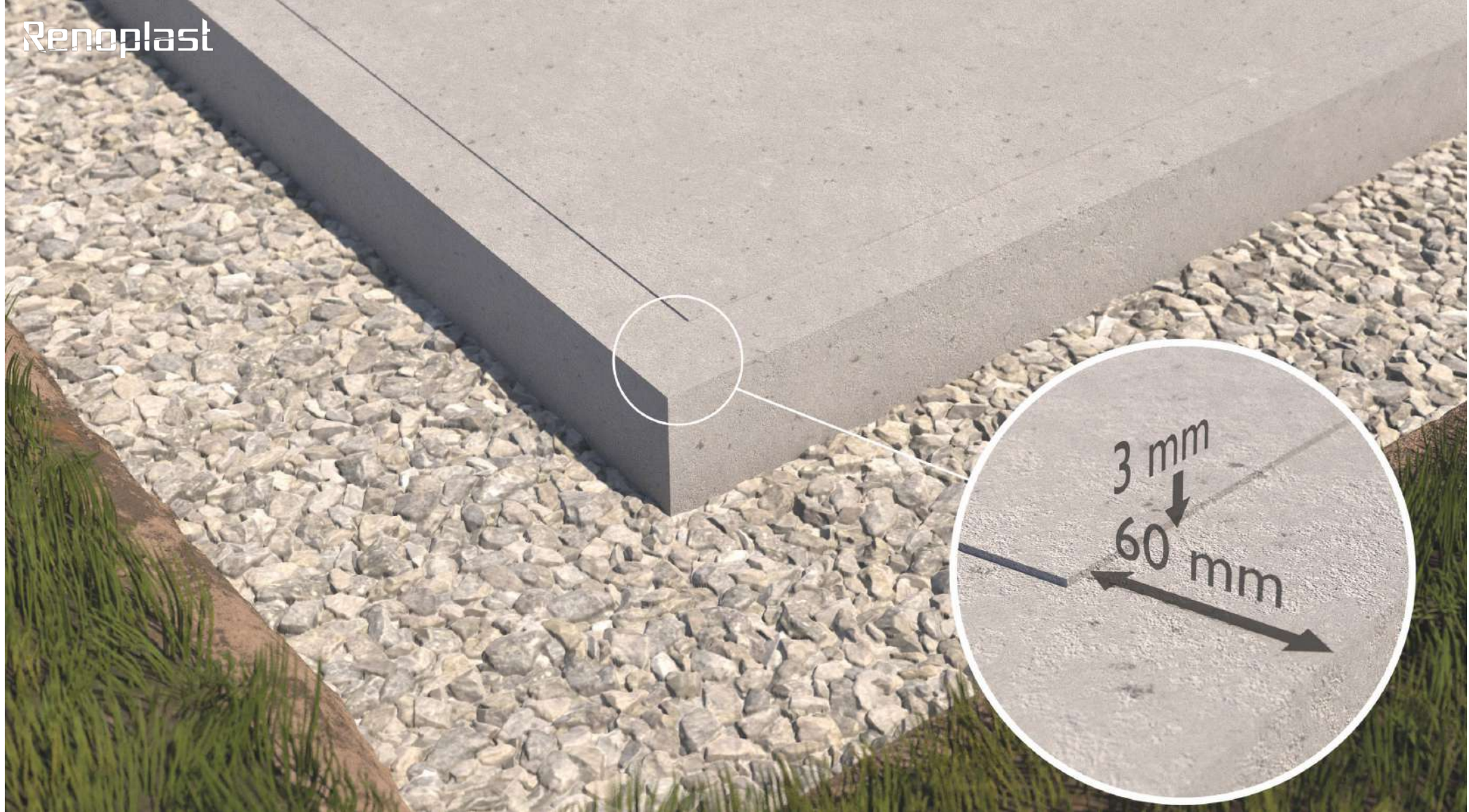
On-grade patio screed layer

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.



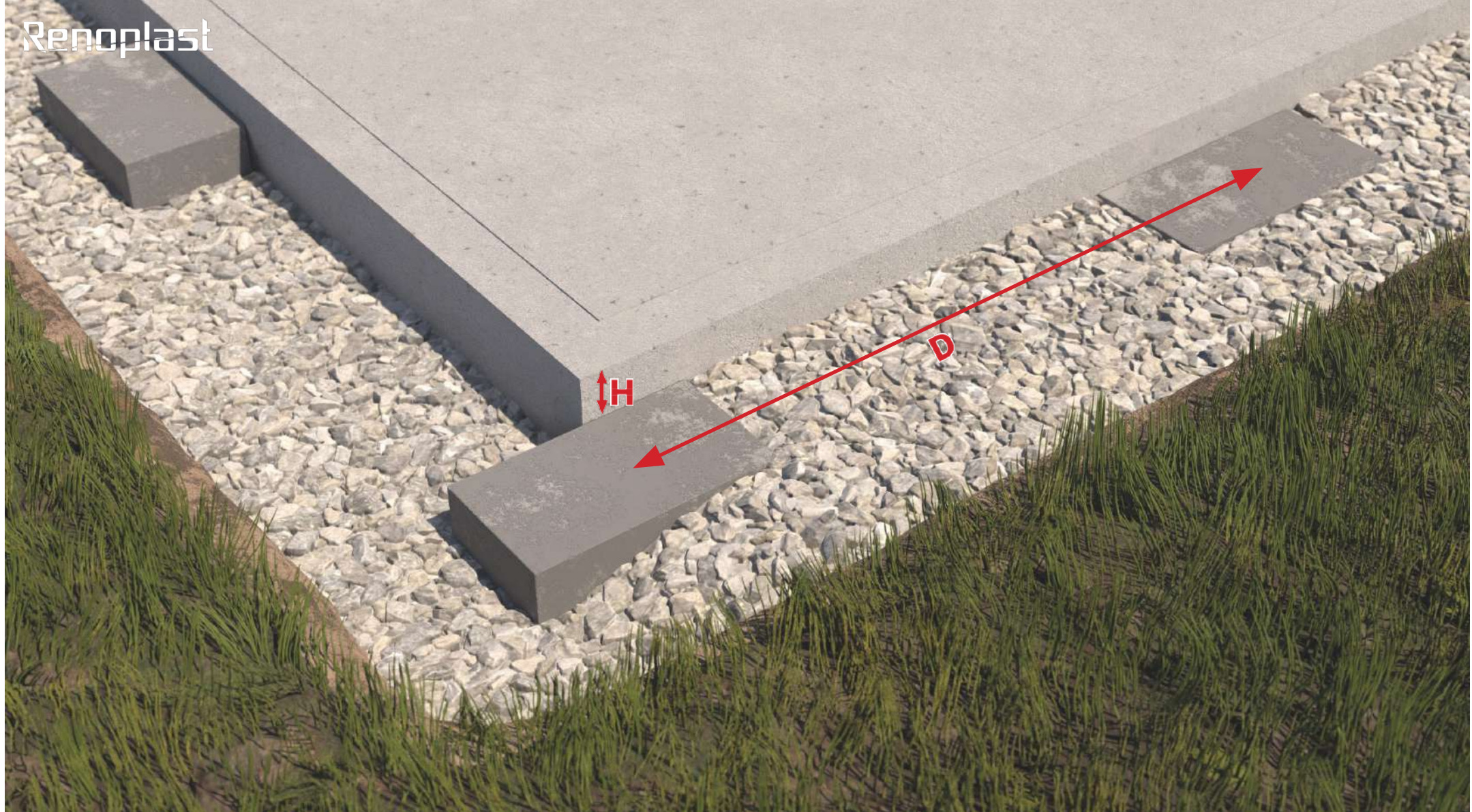
Subsurface drainage installation

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



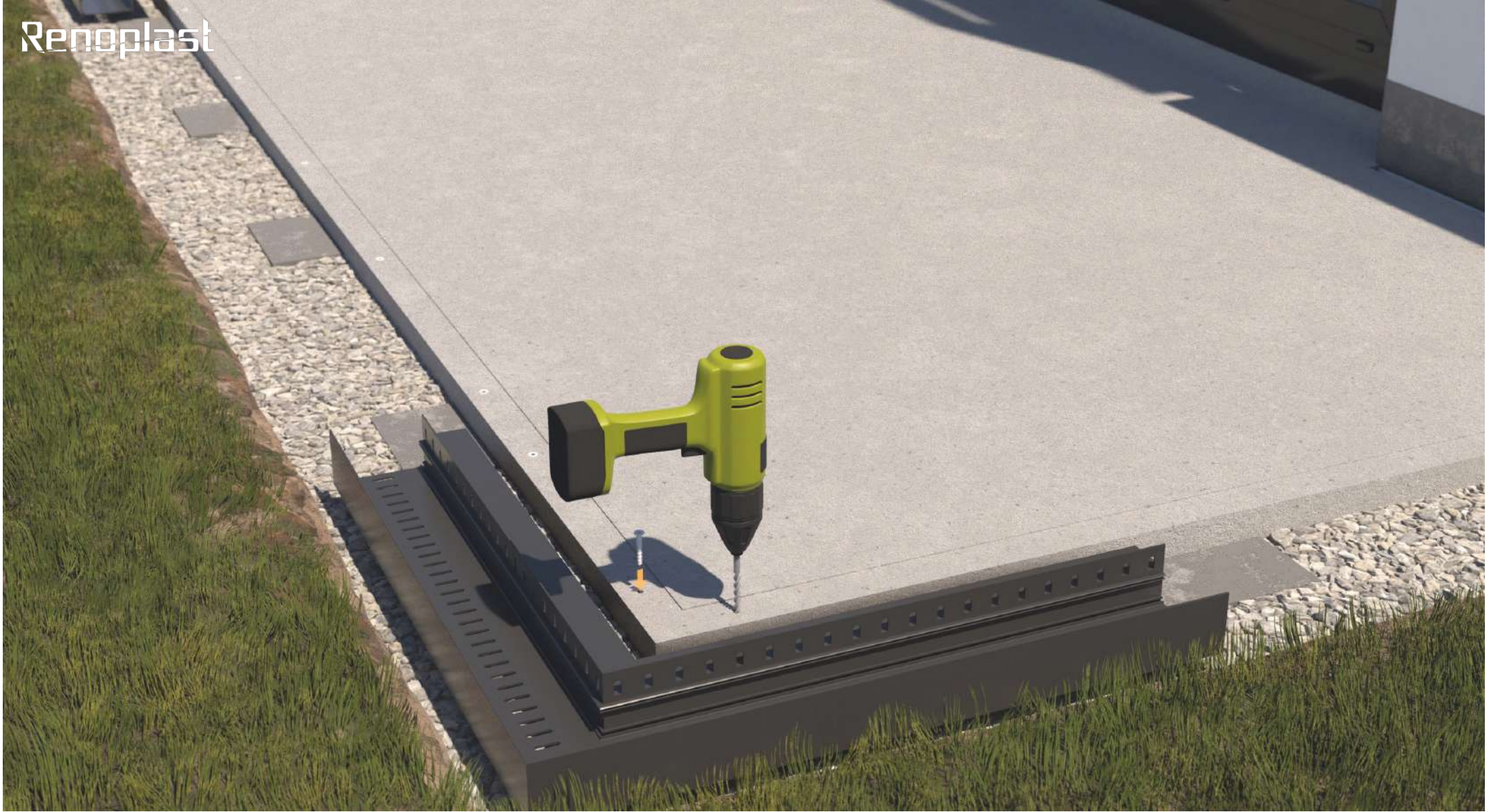
Preparation of screed edge for RENODRAIN XL channel drainage installation

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 XL footing installation

Footing for **RENODRAIN XL** 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.



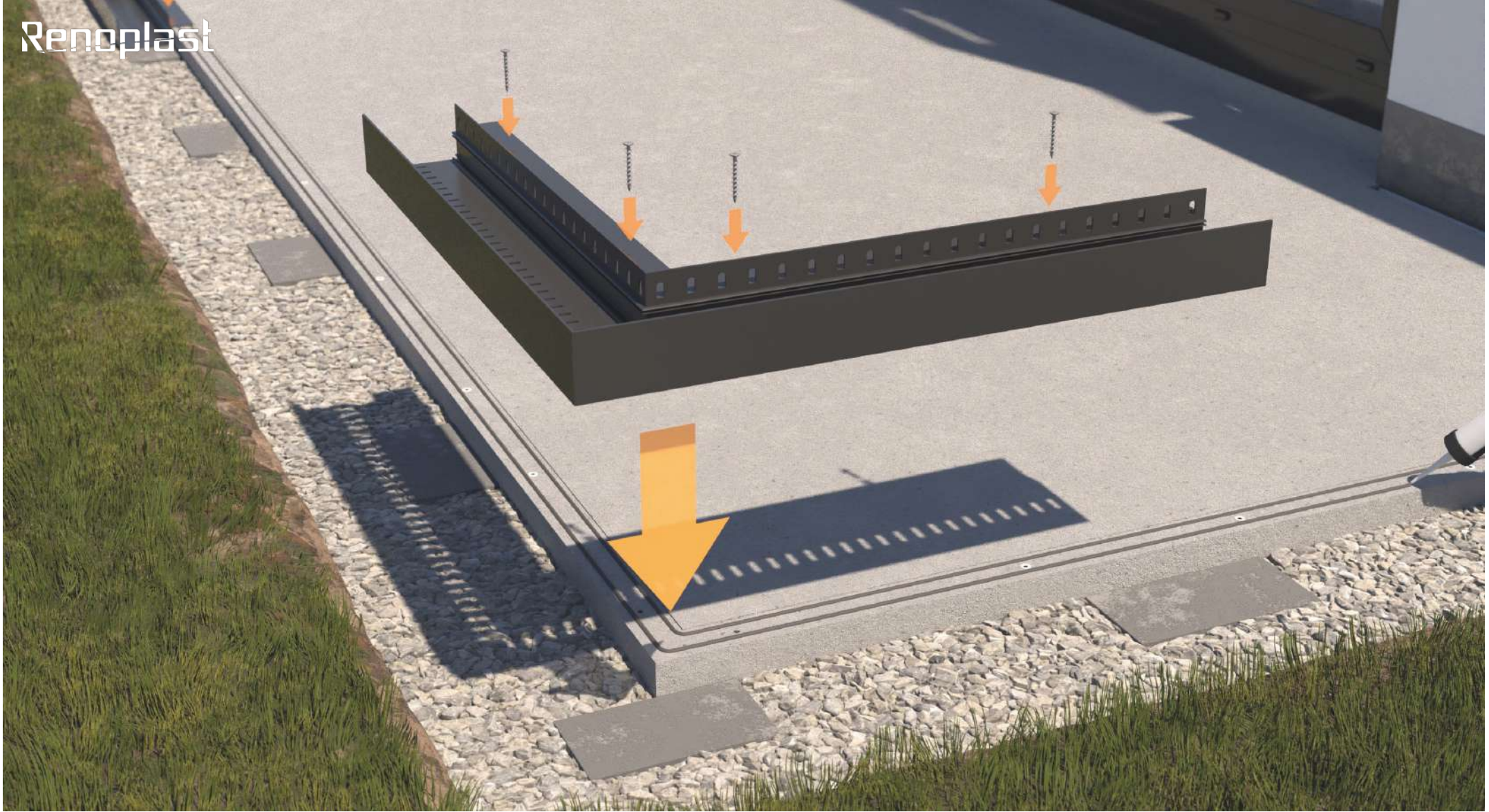
Pre-fitting RENODRAIN 90 external corners

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



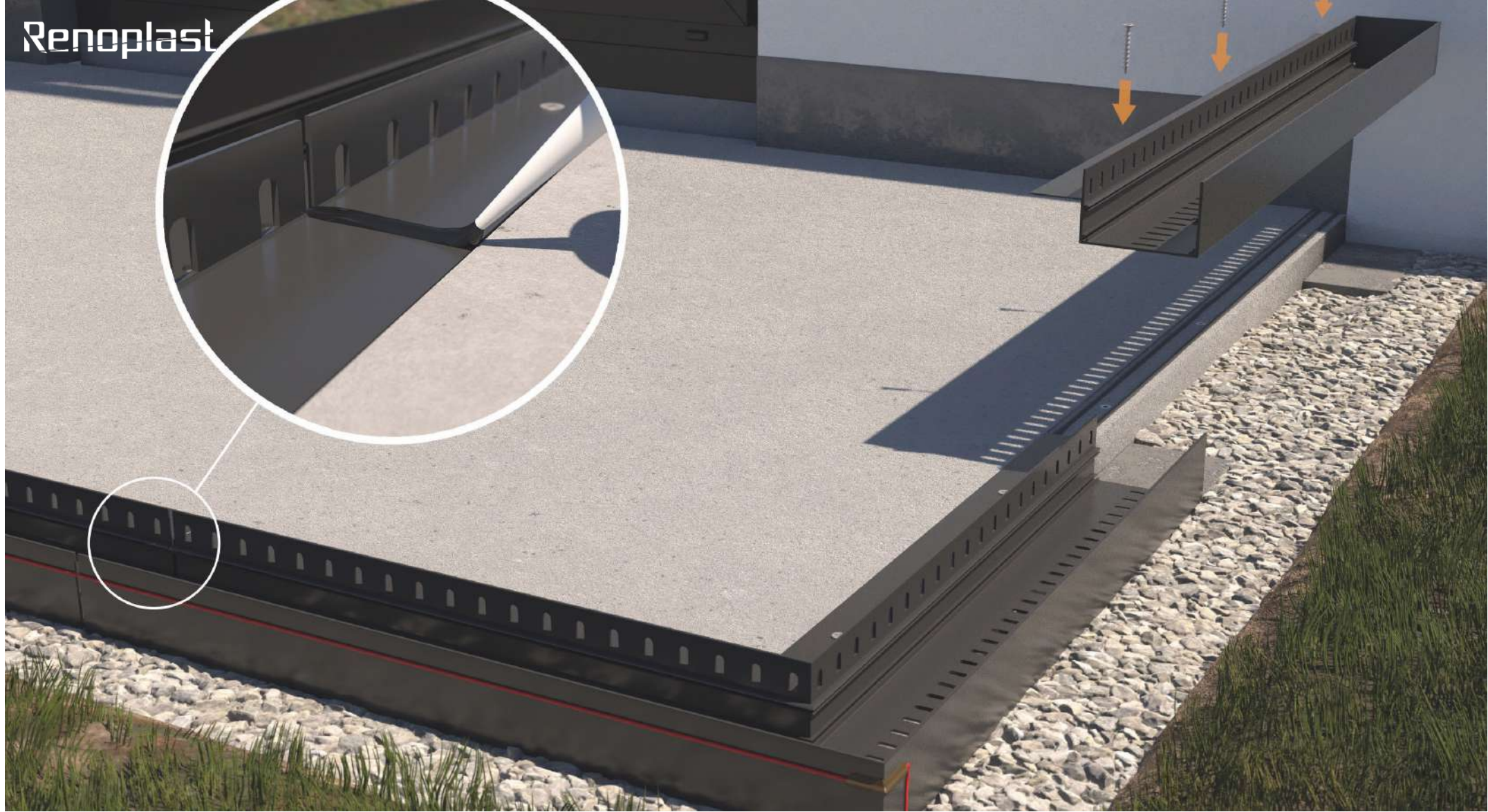
RENODRAIN channel preparation

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.



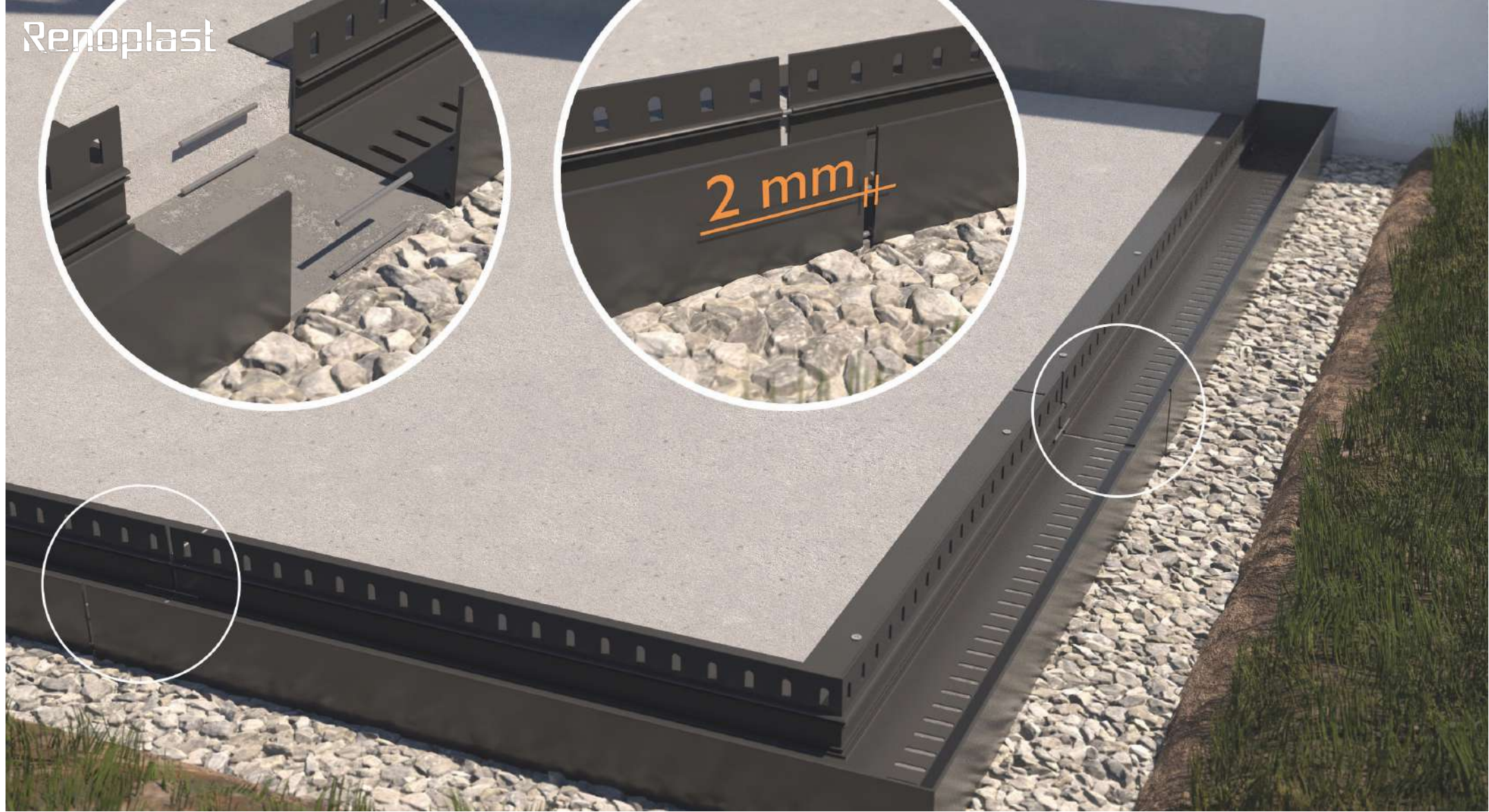
Fixing of 90 external corners

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



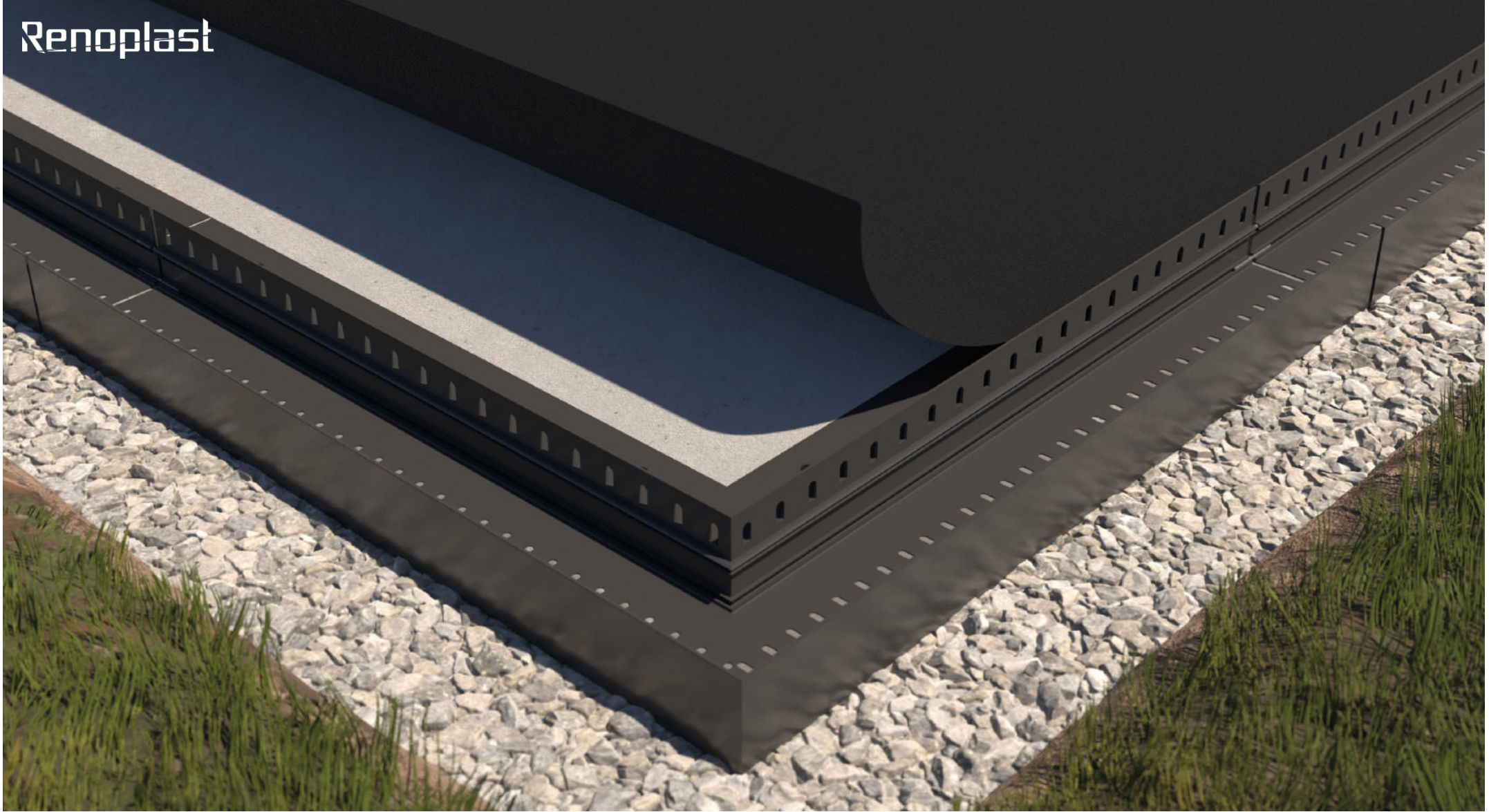
Installation of RENODRAIN channels – laying

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 connectors inserted in factory made holes.



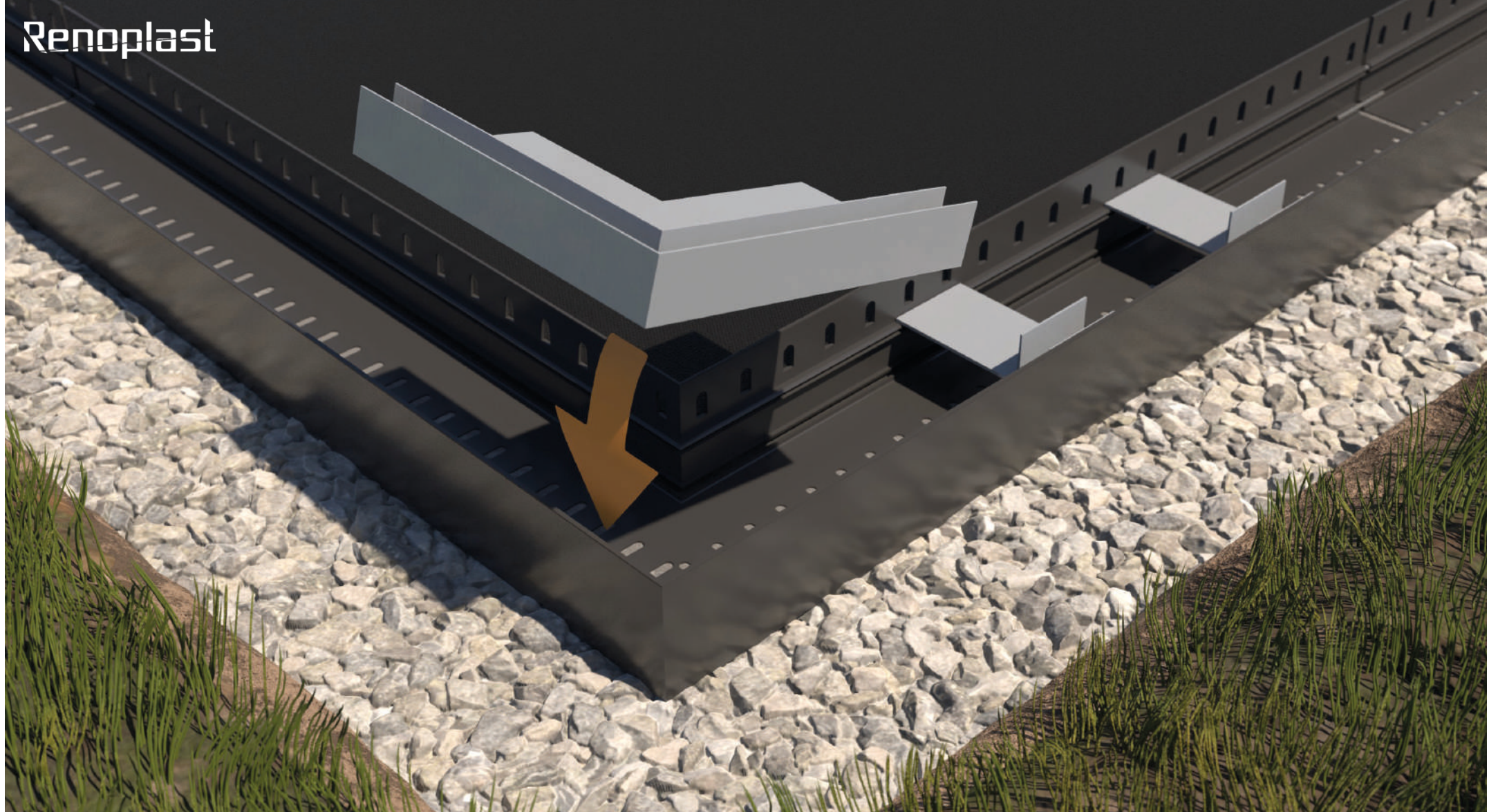
Installation of RENODRAIN channels – finishing

Fix the channels to the cement screed by tightening the plug screws. End sections should be closed with screw fixed end caps before installation. Leave 2 mm wide gaps between adjacent channels as expansion joints and fill them with sealant.



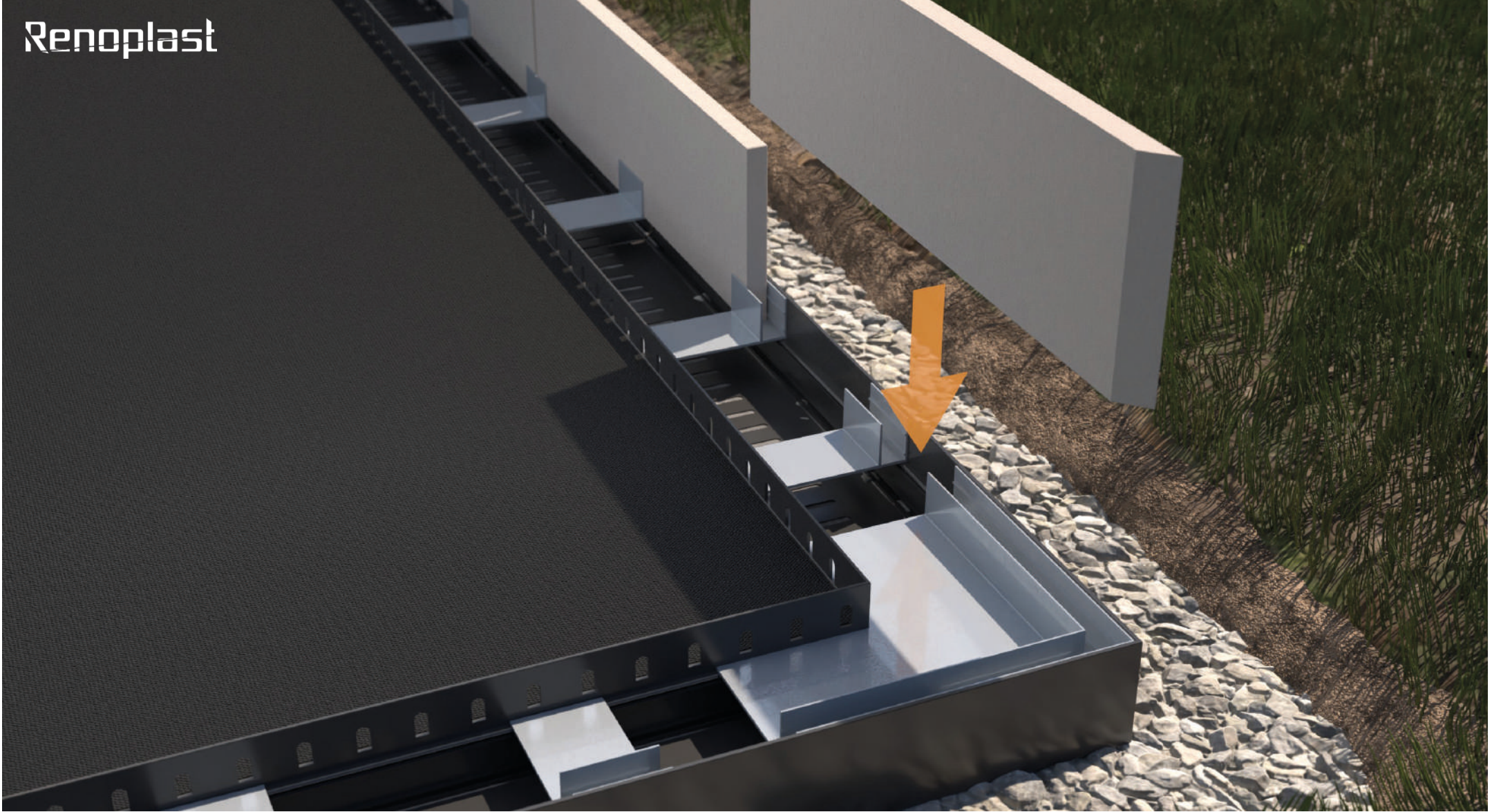
Waterproofing installation

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.



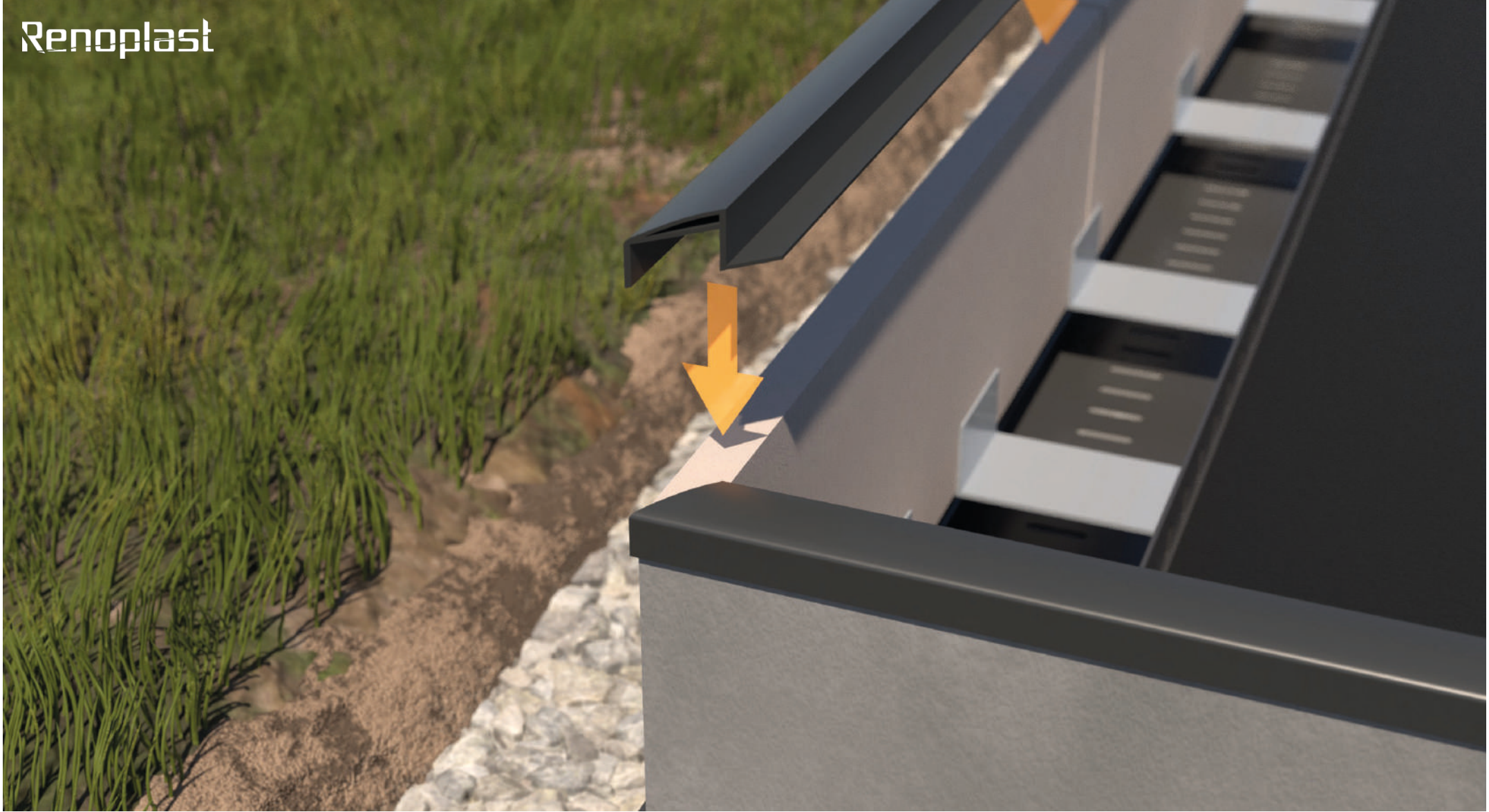
RENODRAIN XL 90 fascia external corner bracket (including corner pieces)

Fit **RENODRAIN XL** channel cover supports, including corner pieces, in the installed channels. The channel cover supports should be placed at max. 30 cm centres.



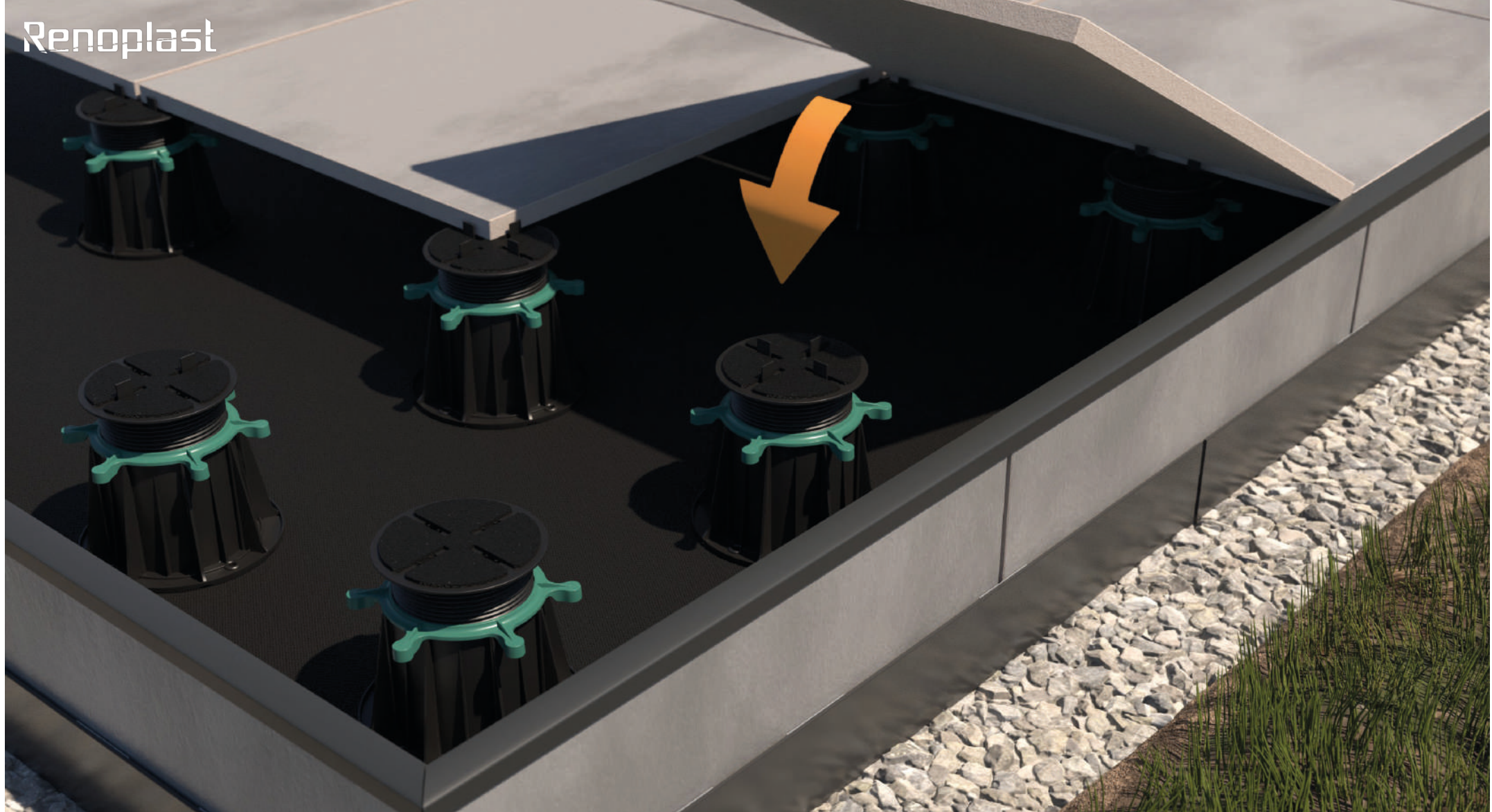
Fitting fascia panels

Insert into channel cover supports the fascia panels obtained by cutting to size the standard 20 mm thick pavers. The fascia panels should not be higher than 20 cm.



Fitting W20Z fascia copings

The porcelain fascia panels are trimmed with **W20Z fascia coping**. At corners mitre straight trims or use **W20Z 90 coping corners**.



Paving with the use of RENOPAD PRO pedestals

The pavers are laid on **RENOPAD PRO** pedestals. **RENOPAD PRO** pedestals are available in different height ranges to suit different floor heights and base inclinations. The layout and number of support points should be adjusted based on the dimensions of the pavers. Lay out the pavers such that the outermost ones, meeting the fascia panels along the patio perimeter are not smaller than 45x45 cm. Smaller pavers may cause problems during installation and also during subsequent use of the floor.

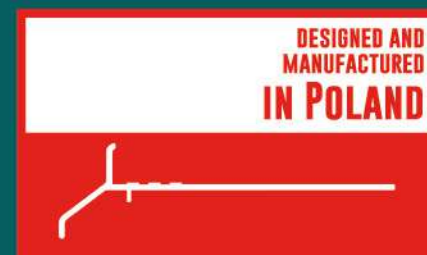


Backfilling the trench with aggregate

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



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