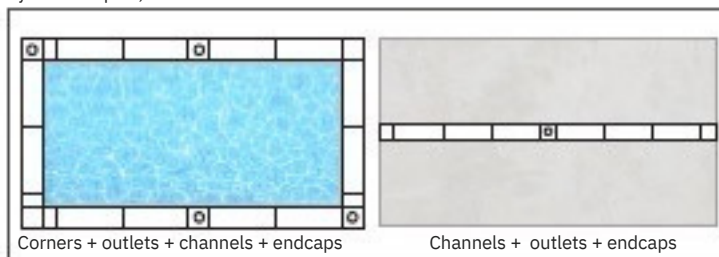


MODULAR OUTDOOR Invisible Drain Installation Manual

Prerequisites:

layout examples;



Before starting the installation of your outdoor modular system, it's important to plan and draw the layout of the modular pieces needed to create the drain.

Follow these guidelines to ensure a successful installation:

Measure the Area: Begin by measuring the area where the drain will be installed. Take accurate measurements of the length, width, and any other relevant dimensions.

Outlet Spacing: Determine the ideal spacing between outlets. We recommend maintaining a distance of 72 inches (or your preferred measurement) between each outlet. This spacing ensures efficient drainage and prevents water accumulation.

Drain Outlet Connection: Consider the connection type of the drain outlet to the pipe. Determine whether it will be a vertical connection or a side outlet connection.

Draw a Layout: Using the measurements and outlet spacing, create a detailed drawing or plan of the drain system. Include the placement of outlets, corners, and any other modular components needed to build the drain. This visual representation will serve as a guide during the installation process.



Pieces connect together easily
with male + female joints.



Step #1: Area Preparation :

Clear the area by removing any obstructions or debris. Ensure the surface is clean and free of loose materials that could interfere with installation.

Measure and mark the location where the drain channel will be installed. The opening should have a depth between 2.36 inches and 2.75 inches, and a width between 8.3 inches and 8.7 inches. Use these dimensions to guide your preparation.

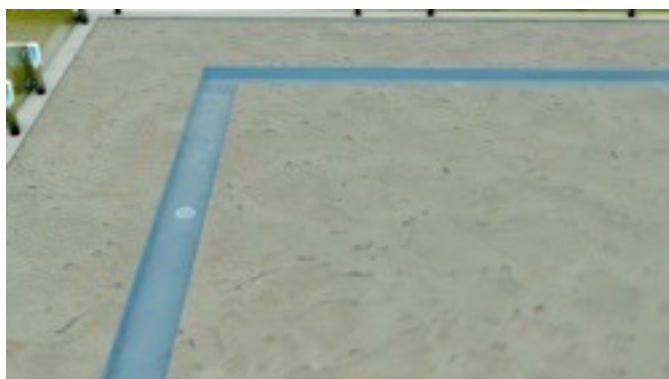
Ensure the surface is smooth and even—any irregularities may affect proper installation of the drain channel.

Important: Confirm that the floor slopes properly toward the drain channel area to ensure efficient water flow.

Thin-Set Note: For best bonding results, we recommend using a high-performance thin-set mortar such as LATICRETE 254 Platinum, MAPEI Ultraflex LFT, or ARDEX X 77.

Step 2: Apply Thin-Set Mortar:

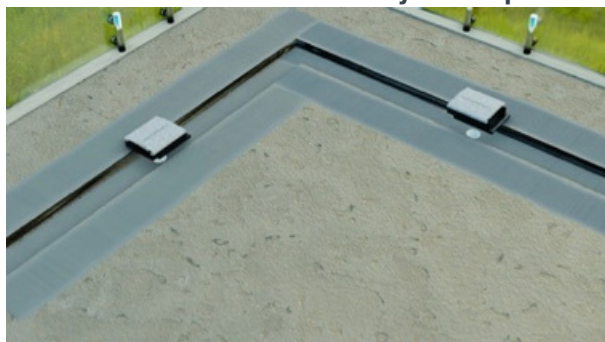
Spread a layer of thin-set evenly along the area where the drain channel will be installed. Ensure the layer is thick enough to securely bond the drain channel to the substrate.



Step 3: Drain Installation:

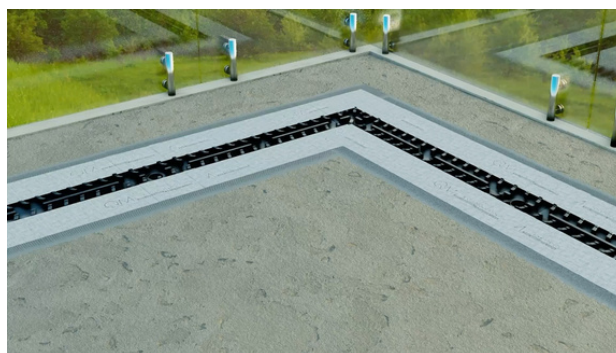
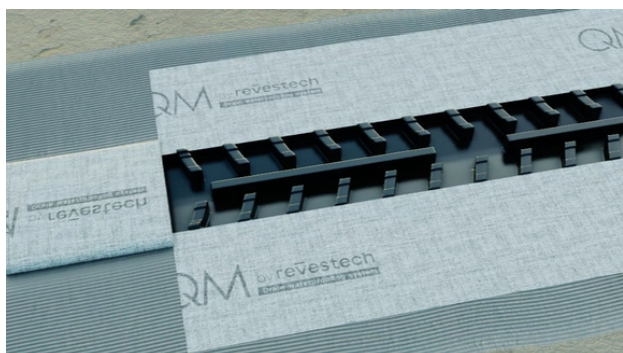
Start by connecting the drain outlet to the existing drainpipe. Then assemble the remaining drain pieces using the male and female connections. Apply QM Sealant at each joint to ensure a watertight seal. Continue assembling according to your layout until the full drain channel is in place. After installation, inspect the fit. Fill any gaps between the channel and the substrate using additional thin-set. Check alignment to ensure the drain is level and properly positioned.

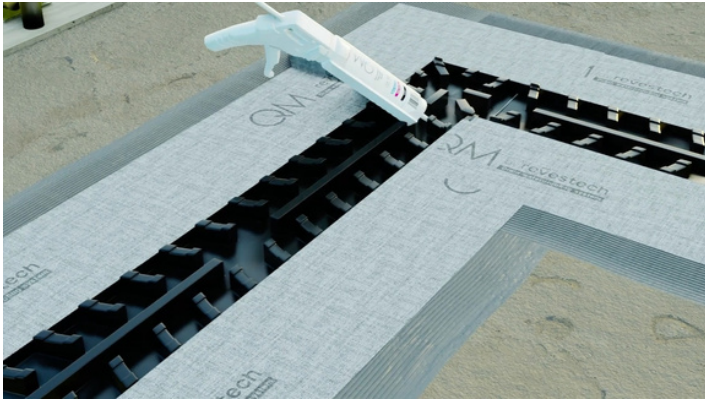
Allow the installation to cure fully before proceeding.



Step 4: Install the Waterproofing Membrane:

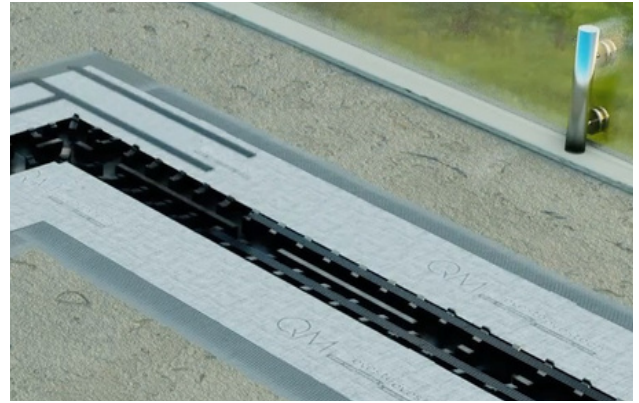
Apply a layer of thin-set mortar to the surface around the drain channel—this acts as the adhesive for the membrane. Press and Smooth the Membrane: Firmly press the membrane onto the thin-set-adhered surface, ensuring it is fully bonded. Use a suitable tool to smooth out any wrinkles or air bubbles, ensuring a tight and even fit.





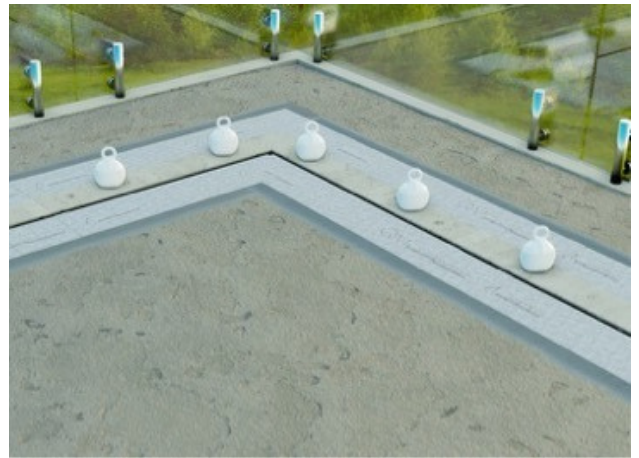
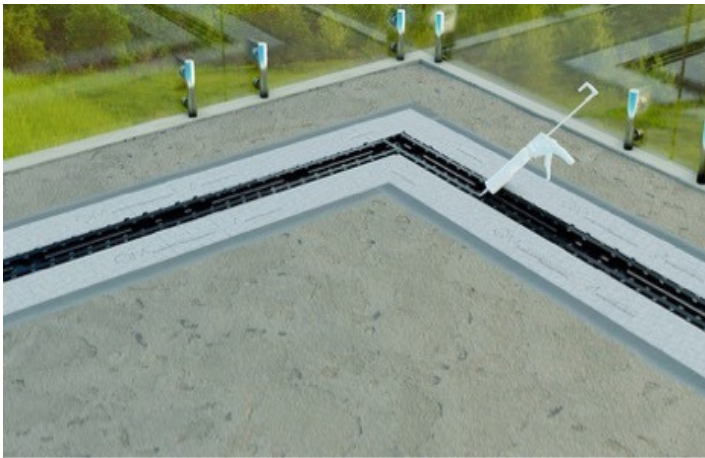
Step 5: Seal the Drain Channel Joints

Apply a thin and even bead of the QM sealant along the joint between each drain channel piece. Ensure that the entire joint is adequately covered with the sealant. Remove any excess sealant.



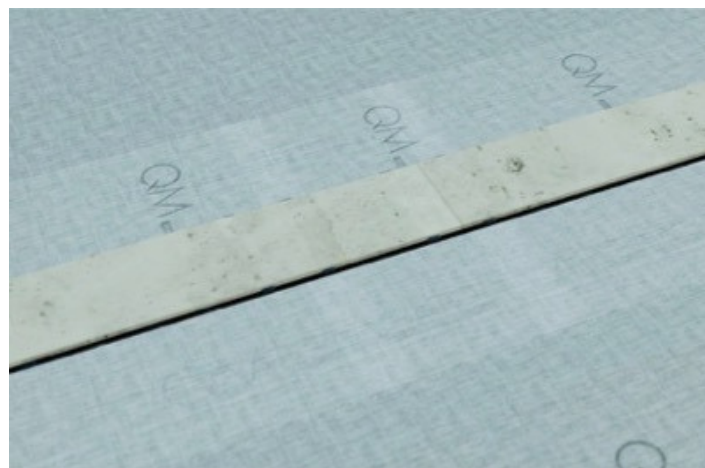
Step 6: Install the PVC Tile Supports

Place each PVC tile support into the channel, aligning them precisely with the designated grooves in each drain piece. Proper alignment is essential for a secure fit and level tile installation.



Step 7: Apply Sealant & Install Tiles Inside the Channel

Apply a layer of QM Drain sealant to the PVC tile supports. Cut the tiles to fit the design and measurements of the channel using appropriate tools. Press the tiles firmly into place, ensuring a snug fit within the grooves.



Step # 8 Waterproofing the Rest of the Floor

To ensure comprehensive waterproofing, it's important to extend the protection beyond the drain channel. Cut the QM Superdry membrane into suitable lengths for the remaining areas of the floor.

Ensure that each piece overlaps the previously installed waterproof membrane by a minimum of 4 inches. Smooth out any wrinkles or air bubbles for a flat and even surface.

Allow for proper drying and finish installing the rest of the floor tile.

Thin-Set Note: For best bonding results, we recommend using a high-performance thin-set mortar such as LATICRETE 254 Platinum, MAPEI Ultraflex LFT, or ARDEX X 77.