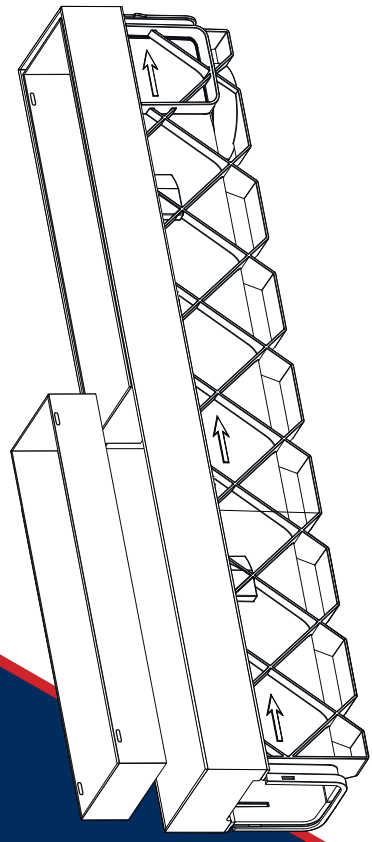


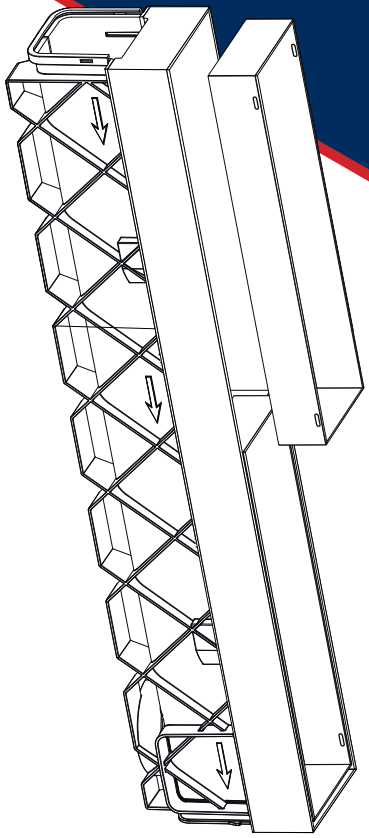


HIDDEN CHANNEL DRAIN

Drainage that blends into your Outdoor Spaces



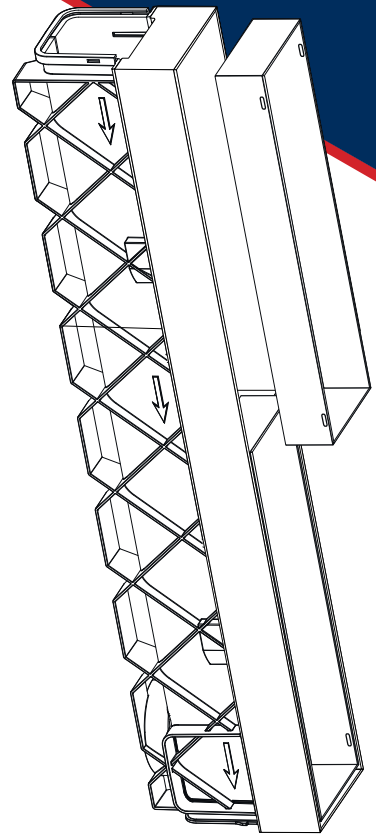
HIDDEN CHANNEL DRAIN
Drainage that blends into your Outdoor Spaces



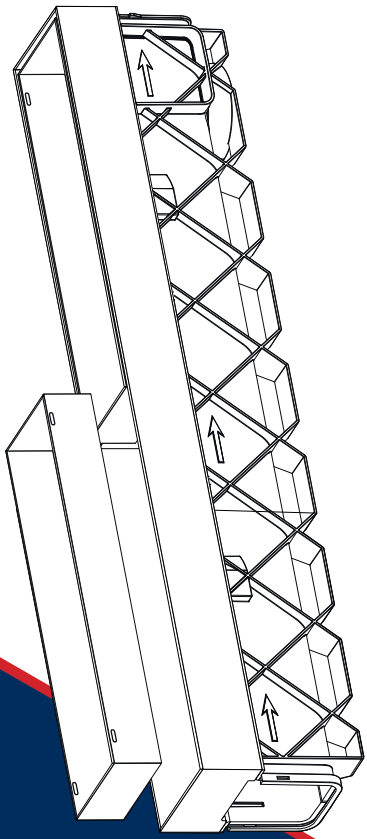
HIDDEN CHANNEL DRAIN
Drainage that blends into your Outdoor Spaces

HIDDEN CHANNEL DRAIN

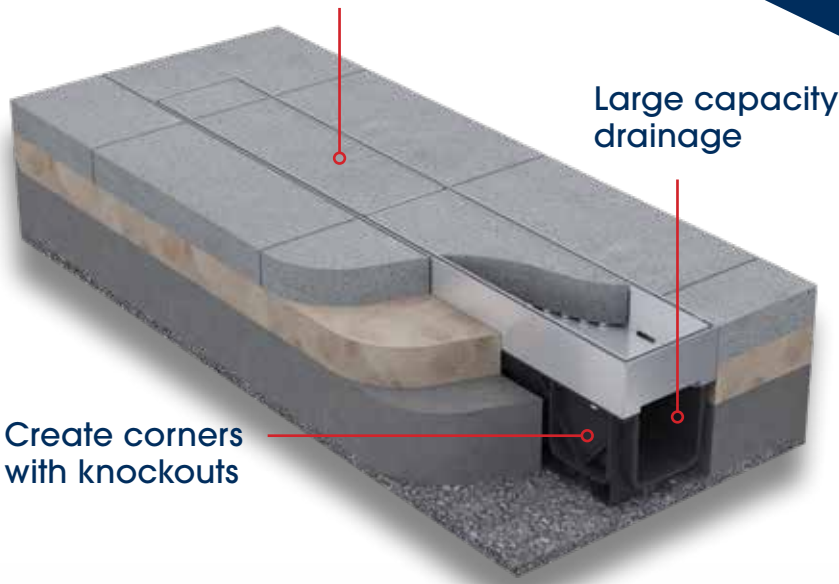
Drainage that blends into your Outdoor Spaces



40 in. Channel Drain with Stainless Steel Insert Trays



Trays accommodate
hardscape materials up
to 60mm (2.36 inches)

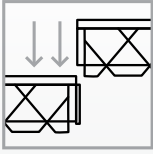


INCLUDED ACCESSORIES
End Caps x 2
Lifting key for tray removal

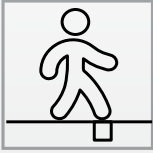


CREATE THAT INTEGRATED LOOK
Ideal for Walkways, Patios & Pool Areas

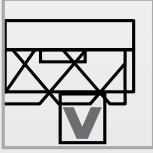
FEATURES



Modular System
Connect Multiple Channels



Pedestrian Traffic
Not Suitable for Vehicles



Bottom Outlet Discharge
Suits 4 in. PVC Pipe



Snap On & Off Trays
For Ease of Cleaning



PRODUCT WARRANTY



How to Video

www.relnproducts.com



P/N 210031

Use as cutting template

See Installation
Instructions inside

HIDDEN CHANNEL DRAIN

Drainage that blends into your Outdoor Spaces



INSTALLING THE RELN HIDDEN CHANNEL DRAINAGE SYSTEM P/N 210031 Pedestrian Traffic Application

Materials & Tools Needed:

- Paver stones
- Gravel or crushed stone
- Polymeric sand and/or Grout
- Concrete mix (optional)
- Drainage Sealant (RELN Sealant P/N 000309, optional)
- PVC or corrugated drainpipe (if connecting to a drainage system)
- Shovel
- Slot head Screwdriver
- Level
- Measuring tape
- Marker
- Rubber mallet
- Plate compactor (or hand tamper)
- Angle grinder (for cutting pavers)

Step-by-Step Instructions:

1. Plan & Measure:

- Identify where the RELN Hidden Channel Drain will be installed and mark the area.
- Plan the direction of the slope to ensure water flows properly into the drain.

2. Dig the Trench for the Drain:

- Dig a trench 10 inches wide (slightly larger than the drain system to allow for adjustment and placement) and 12 - 14 inches deep.
- Ensure the bottom of the trench slopes towards the exit point (usually a drainpipe or outflow area). The slope should be approximately 1/8 inch per foot for proper water flow.

3. Install a Gravel Base:

- Spread a 4-6" layer of gravel or crushed stone at the bottom of the trench.
- Compact the gravel using a tamper or plate compactor to create a stable base for the channel drain.

4. Channel Drain Assembly:

- Assemble the sections by locking the channel lengths together.
- Install included end caps on both ends of your channel drain run. (Refer to assembly guide for end cap removal instructions)
- Using a 3-1/4" hole saw, drill out the bottom outlet to connect your 4in. discharge pipe. A utility knife can also be used to remove the knock-out

5. Install the Channel Drain:

- Set the channel drain into the prepared trench on top of the gravel base.
- Corners can be created at the downstream end of the channel on either side.
- With a sharp knife or small reciprocating saw, follow along the indicated cut out and remove the required side panel from the channel.
- Apply RELN Sealant to the outer flange of the channel with the side cut out and to the female slotted connection end of the intended downstream channel to create a seal between both channels.

6. Connect to Drainpipe:

- Connect the bottom outlet of the channel drain to either a PVC or corrugated pipe (for 4in. corrugated pipe, the RELN corrugated pipe adapter P/N 000225 is required). Apply the RELN Sealant P/N 000309 to the pipe connections to create a secure seal (optional).
- To test your system and proper slope, we recommend simulating a rainfall by using a garden hose or buckets to pour water evenly along the length of the channel. The water should move towards the outlet end, without pooling, indicating proper function.

7. Backfill Around the Drain:

- Once the channel drain is in place and connected, backfill around the channel using gravel or crushed stone.
- For structural support, pour concrete around the sides of the channel drain to hold it in place, preventing the channel drain from shifting over time (optional but recommended for durability).

8. Install Paver Stones in Channel Drain Trays:

Clean the Surfaces:

- Ensure that both the paver stones and the steel trays are clean and free from dirt, oil, or debris. Use a clean cloth and mild detergent, if necessary, then let everything dry completely.

Remove the Metal Trays:

- Insert a slot head screwdriver in the pry slots (4 slot openings located on the uppers of each tray).
- Apply pressure gently downwards, prying the trays away from the channel section.
- Once the trays are loose, use the included lifting key to remove the trays from the channel section.

Measure and Layout:

- Measure the dimensions of the tray (L 19" x W 5" x H 2.36") and plan how the paver stones will be arranged. Mark the placement of each paver stone on the tray with a marker to ensure proper alignment.
- Trays can accommodate stone up to 60 mm (2.36in.) in thickness

Apply Adhesive:

- Use a strong construction adhesive that bonds well to both metal and stone. Alternatively, the RELN Sealant (P/N 000309) bonds to any hardscape and metal surfaces with no negative reaction.
- Apply a generous amount of adhesive to the underside of each paver stone in a zigzag pattern or beads. Ensure the adhesive covers most of the surface for a strong bond.

Press Stones into Place:

- Place each paver stone onto the steel tray according to the layout marks. Firmly press down to ensure contact between the adhesive and both surfaces. If necessary, gently tap the pavers with a rubber mallet to secure them firmly in place.
- Allow the stone(s) to dry fully in the trays before proceeding.
- Place tray sections back into the channel drains. Using lifting key as spacer guide – place key on the end of the outside of the tray, leaving about a 1/4" gap between the tray and the channel edge, then apply pressure and snap the tray into place.

9. Laying Pavers Around the Channel Drain:

- Lay paver stones as close to the channel drain as possible.

10. Compact the Pavers:

- Once the pavers are laid, use a plate compactor to ensure the pavers are set firmly into the sand.
- Be careful not to damage the channel drain during the compaction process.

11. Fill the Joints & Apply Grout:

- Fill in any gaps between paver stones and channel drain using grout or polymeric sand.

By following these steps, you'll have a functional and stylish Hidden Channel Drain integrated with your paver installation, ensuring effective water drainage and preventing future issues with standing water. For any additional information, please contact our RELN customer support team at sales@relnproducts.com or toll-free at 1-855-215-6858