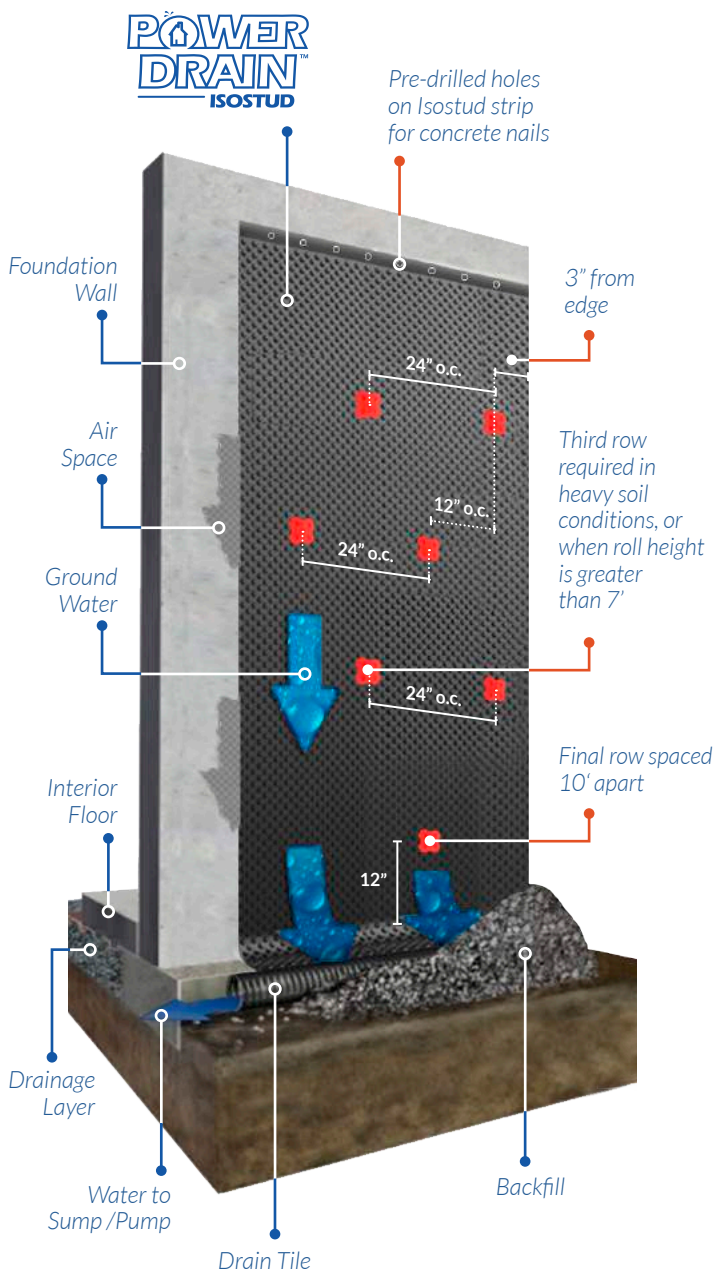


# POWER DRAIN™ ISOSTUD Installation Guidelines



CCMC Approved



## JOB SAFETY

Refer to The Occupational Health and Safety (OHS-USA) Regulation or the Construction Safety Association (Canada) for safety precautions on a job site. Personal Protective Equipment is required at all times while installing the membrane.

No known health risks are associated with the use of **PowerDrain™ IS**. Refer to the Material Safety Data Sheet for more information.

## TOOLS RECOMMENDED

- Hammer or automated nailing gun
- 1 1/4" - 1 1/2" concrete nails
- Utility knife for cutting the membrane
- Caulking gun
- Chalk line
- Drill – For ICF foundations

## REQUIRED ACCESSORIES

**Isostud Strip** – Used to seal around cut edges in the membranes around window wells, walk-outs, vertical terminations, and on sloped cuts.

**Isostud Fastener** (most square fasteners designed for this application are acceptable) – Used with nails or screws at the dimpled section of membrane.

## INSTALLATION

Surfaces to receive the membrane must be structurally sound and free of loose mortar, fins, and metal projections. Wall ties must be removed and the tops of the footers swept.

A chalk line must be made on the foundation wall at final grade in order to establish placement of the top of the membrane and the Isostud Strip.

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## **INSTALLATION CONTINUED...**

The membrane is unrolled right to left. The top of the roll has a termination edge. The dimples on the Powerdrain IS will be facing inwards towards the foundation wall. The membrane may be unrolled and cut into 10-foot sections for easier installation. We recommend the membrane be overlapped over the footing although it may also be rolled to the top of the footing.

The Isostud Strip must be installed across the top edge of the membrane to prevent soil and water from entering between the wall and the membrane. The Isostud Strip is placed along the top edge of the wall to overlap the top roll of dimples, and is attached with concrete nails in the predrilled holes. Apply a bead of sealant behind the strip to prevent soil particles from entering the air gap.

Install the first row of Isostud Fasteners spaced 24" apart, approximately 12" below the Isostud strip at the top of the roll. Stagger the second row of Isostud Fasteners from the first, spaced 24" apart, approximately 12" below the first row. In heavier soil conditions or for rolls greater than 7' in height, install an extra row of washers spaced 24" apart in the middle of the roll.

Install a final row of washers at the top of footing, 12" up, spaced approximately 10' apart to prevent rocks from getting up in between the membrane.

On walls greater than 10' in height (or a height greater than the roll width being installed), the bottom course must be installed first, and the top course must overlap onto the bottom course by a minimum of 6".

## **CORNERS, SEAMS, AND CUT EDGES**

When membrane is installed into inside corners or around outside corners, the membrane must be pushed in as tightly as possible into the corner (inside corners) or pressed tightly around the corner (outside corners). Do not install fasteners within 3" of outside or inside corners to avoid damaging the concrete.

At horizontal or vertical seams, the membrane must be overlapped by a minimum of 6" and connected with the Isostud Fasteners at the seam every 12 - 15".

For window wells, walk-outs, vertical terminations and on sloped cuts, install Isostud Strip along the cut edge of a membrane. Cut back the roll 3" from the edge of all openings and secure with fasteners in the predrilled holes, along the Isostud Strip.

## **SERVICE PENETRATIONS**

For penetrations, caulk around the penetration with a compatible sealant first. Cut the membrane vertically so it goes past the service penetration at least 6 inches. Cut the membrane to allow for the membrane to fit around the penetration as tight as possible. Caulk around the penetration again.

## **MEMBRANE REPAIR**

If repairs are needed, a patch piece large enough to overlap the surrounding areas by 6 inches is used. Sealant must be applied around the damaged area and the patch piece installed to interlock with the adjacent dimples. Install Isostud Fastener around the patch to hold it tightly against the membrane.

## **CONDITIONS OF USE:**

The backfill of the foundation must be clean soil, free of rocks or any other deleterious materials and placed so as not to damage the foundation membrane system. Powerdrain Isostud must be backfilled within 15 days of installation to protect the membrane from prolonged exposure to UV rays.

## **CERTIFICATIONS/APPROVALS:**

CCMC Drainage CCMC #13634-R

CCMC Dampproofing CCMC #13635-R

ICC ES ESR 3457