

DrainStar® Stripdrain

RECOMMENDED INSTALLATION INSTRUCTIONS

NOTE: DrainStar® can be installed in two positions. Vertical or L-Shape.

All DrainStar connections, splices and core interlocking should be overlapped with additional filter fabric, taped and fastened to the foundation wall. This ensures that the DrainStar maintains a continuous barrier preventing soil entry into the DrainStar.

Vertical Installation Instructions

1. Unwind roll of DrainStar around excavation.

2. Starting at the termination point of DrainStar (at the sump connector tile or daylight exit), place DrainStar vertically against WARM-N-DRI® with the dimples facing the WARM-N-DRI. The flap of filter fabric should face down.

3. Attach DrainStar to the wall with powder actuated fasteners every 4-5 feet, as necessary to keep DrainStar snug against WARM-N-DRI. Fasteners should be installed at a level near the top of the DrainStar, to prevent soil backfill from folding the DrainStar over. For proper fastener type, size and installation tool, contact Tremco Barrier Solutions Technical staff at 1-800-876-5624.

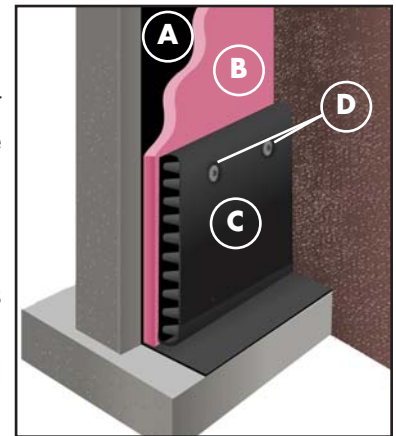
4. DrainStar can be maneuvered to fit inside and outside corners. Do not fasten DrainStar to the foundation wall closer than two feet on either side of corners, unless corner guards are used. It is normal to have a small amount of slack or gap between DrainStar and the wall corners when bending the DrainStar away from the dimple face. When bending toward the dimple face, a tight corner can be made, and the DrainStar will fit snugly into or around the corner.

-Although not required, corner guards are recommended for use with DrainStar when bending DrainStar away from the dimple face at corners.

-For applications with WARM-N-DRI, DrainStar dimple face in, use corner guards for inside corners.

-For membrane only applications, DrainStar dimple face out, use corner guards for outside corners.

-To install corner guards, slit the DrainStar dimple face fabric vertically between the dimples at the location of the corner, bend the DrainStar to a sharp bend and place the corner guard over the open DrainStar fabric slit. Wrap the fabric tightly around the DrainStar and tape to secure; the top fabric edge should wrap over the bottom. The corner guard will be against the Warm-N-Dri board on inside corners, and will be outside the DrainStar on outside corners of membrane only applications.



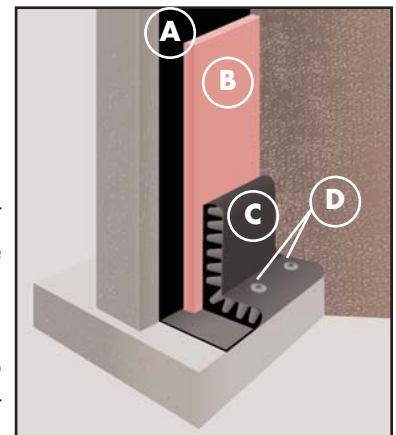
VERTICAL ILLUSTRATION:
[A] TUFF-N-DRI Waterproofing
[B] WARM-N-DRI Board
[C] DrainStar [D] Actuated Fasteners

5. Continue with installation until reaching the drain exit point(s).
 - For daylight or walkout drainage, install a DrainStar universal outlet fitting directly to the end of the DrainStar. Secure the fitting with a powder actuated fastener to ensure it does not become disconnected from the DrainStar. To connect a 4" pipe to the DrainStar universal outlet, fasten the 4" pipe with 3" tape, screws or a 4" interior coupling.
 - For sump connections, install a DrainStar universal tee fitting within two feet of the sump sleeve through the footing. Secure the fitting with a powder actuated fastener to ensure it does not become disconnected from the DrainStar. Cut and remove the filter fabric (dimple face out applications) or fabric and core (dimple face in applications) out of the DrainStar around the inside hole of the 4" tee fitting (removing the fabric/fabric and core allows water to exit the DrainStar without restriction). To connect a 4" pipe from the universal tee fitting to the sump sleeve, use 4" corrugated pipe or 4" PVC with elbows. Fasten the 4" pipe with 3" tape, screws or a 4" interior coupling. If possible, backfill the 4" pipe connection with gravel or soil with a shovel to ensure that the pipe is not damaged or disconnected during backfill.

L-Shape Installation Instructions

The L-Shaped installation method requires a minimum of 3" of footing exposed after WARM-N-DRI is installed.

1. Unwind roll of DrainStar around excavation, **12 inch product only**.
2. Starting at the termination point of DrainStar (at the sump connector tile or daylight exit), place DrainStar vertically against WARM-N-DRI with the dimples facing the WARM-N-DRI. The flap of filter fabric should face down.
3. Step gently on DrainStar. Apply enough pressure to mold DrainStar into the shape of the letter "L", with approximately 3-4 inches of DrainStar horizontally on the footing and 8-9 inches vertically against WARM-N-DRI. Enough tension should be created in the vertical section of DrainStar to keep it snug against WARM-N-DRI.
4. Use a powder actuated fastener to secure DrainStar to the footing every 4-5 feet, or as required to maintain firm contact of DrainStar to WARM-N-DRI.
5. DrainStar can be maneuvered to fit inside and outside corners. Fasten DrainStar to the footing approximately one foot on each side of corners. It is normal to have a small amount of slack or gap between DrainStar and the wall corners. Corner guards are not recommended for L-shape application.
6. Continue with installation until reaching the drain exit point(s).
 - For daylight or walkout drainage, install a DrainStar universal outlet fitting directly to the end of the DrainStar. Secure the fitting with a powder actuated fastener to ensure it does not become disconnected from the DrainStar. To connect a 4" pipe to the DrainStar universal outlet, fasten the 4" pipe with 3" tape, screws or a 4" interior coupling.
 - For sump connections, install a DrainStar universal tee fitting within two feet of the sump sleeve through the footing. Secure the fitting with a powder actuated fastener to ensure it does not become disconnected from the DrainStar. Cut and remove the filter fabric (dimple face out



L-SHAPED ILLUSTRATION:
 [A] TUFF-N-DRI Waterproofing
 [B] WARM-N-DRI Board
 [C] DrainStar [D] Actuated Fasteners

applications) or fabric and core (dimple face in applications) out of the DrainStar around the inside hole of the 4" tee fitting (removing the fabric, or fabric and core, allows water to exit the DrainStar without restriction). To connect a 4" pipe from the universal tee fitting to the sump sleeve, use 4" corrugated pipe or 4" PVC with elbows. Fasten the 4" pipe with 3" tape, screws or a 4" interior coupling. If possible, backfill the 4" pipe connection with gravel or soil with a shovel to ensure that the pipe is not damaged or disconnected during backfill.

Additional Information

- Ensure TUFF-N-DRI or WATCHDOG Waterproofing membrane is sprayed to the proper 60 mils wet thickness on foundation wall and at footing/wall joint transition.
- Corner guards are recommended at the appropriate corners for vertical applications.
- DrainStar cannot be installed around corners so as to crease or crimp the plastic core impeding the flow of water.
- Always cut filter fabric, or fabric and core, out of DrainStar inside the 4" hole when installing a universal tee.
- DrainStar can run up to 150 feet without an outlet. Tremco Barrier Solutions, Inc. recommends a minimum of two outlets per foundation. Installing one outlet per wall connected to an interior tile system is a preferred application. Two outlets at a sump corner is also a good idea, to provide a back-up if one is damaged or disconnected. Check local code requirements for required outlets.
- If DrainStar cannot make a continuous loop around the foundation, as with a non-sleeved bulkhead wall or garage wall; terminate DrainStar at both sides of the wall, and drain from both sides. Ensure all DrainStar terminations are overlapped with filter fabric and fastened properly to the foundation wall.
- If a roll of DrainStar ends in the middle of a foundation wall, applicator can use the "eggshell carton" method, or core interlocking, to begin new roll of DrainStar. Cut filter fabric away from the last two rows of dimples on the existing and new rolls of DrainStar, and press new DrainStar dimples into dimples of existing DrainStar. Re-wrap transition area with filter fabric and fasten properly to foundation wall. The "eggshell carton" method can also be used to step down DrainStar at footing elevation changes.
- DrainStar chimneys can be installed under window wells at the builder's request or as required by code. To install a DrainStar chimney, fasten DrainStar up the foundation wall and terminate at a level where it will properly drain water from below the window. Wrap the top and bottom of DrainStar with filter fabric to prevent soil or gravel from entering DrainStar. Where the footing DrainStar meets the chimney DrainStar, fasten DrainStar chimney on the outside of the footing DrainStar. The footing DrainStar should make a continuous loop, with the chimney DrainStar on the outside and the soil backfill against it.



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