

## ISO-FLEX DRAIN GUARD INSTALLATION PROCEDURES

### 1. Preparatory Work

Begin by completing all of the necessary repair work to the substrate surrounding the expansion joint system. Ensure that the pertinent dimensions are within the tolerances specified for the Iso-Flex Drain Guard System. The expansion joint blockout and stem openings shall be of consistent width and depth along the entire length. They shall be the required widths and depths for the specified system on this project.

Edge spalling, sharp projections and concrete voids shall be repaired prior to proceeding with the joint installation. All repair materials used should have reached full cure conditions as specified by the manufacturer.

Slightly chamfered or rounded the top corners of the concrete at the expansion joint are recommended to help prevent edge spalling and damage to these edges during subsequent use.

The Drain Guard Neoprene Seal shall be unrolled and allowed to lie in a relaxed position. Once rolled out the seal can be cut to length and any splicing can be made (See section "Splicing").

Locate, and cut a hole where each drain tube assembly is to be located. Make sure that the hole is the inside diameter of the drain tube adapter. Roughen up the bond surface around the hole. Apply Carlisle HP-250 Primer and allow to tack over. Remove the protective backing tape from the drain tube adapter positioning and attach it over the hole in the neoprene sheet. Using a seam roller, ensure full contact of the drain tube adapter.

### 2. Installation

Mark the locations on the slab where the Drain Guard assembly will attach. Use an aluminum termination bar as a template and drill the anchor holes. Pinch the assembly in place on the bottom side of the slab using the aluminum termination bars, or secure in place in the base of the blockout utilizing the expansion joint system specified. Fasten in place with the provided masonry anchors.

### 3. Splicing/End Caps

Splices of the Iso-Flex Drain Guard can be easily completed in the field by using Carlisle "SecurTape". The Drain Guard material lengths can be effectively spliced together using this method. Lay out the 2 lengths of Drain Guard Seal being spliced and assure they are clean and dry. Align to the 2 lengths to be spliced. Cut the Secure Tap (3" wide) to the proper length for this purpose. Roughen the surface areas of the splice approx.. 3" on each side of the splice. Using a clean cotton rag, prime the interfacing areas of both pieces of Drain Guard with Carlisle HP-250 Primer using a circular motion. Allow about 1 minute for the primer to flash off.

Once the primer is applied and tacked over, pull the protective backing sheet from the SecurTape as you align and press-apply the SecurTape over the primed surface. Be sure to align correctly since there is **no ability to reposition** the rubber due to the bond strength. Apply even and uniform pressure along the splice line to develop the material bond. The final step in the process is to apply Carlisle Sure-Seal Lap Sealant (provided in caulking cartridges) along the edges of the SecurTape material.

The Drain Guard Seal should then be flipped over so that the same process can be applied to install the same SecurTape splice to the opposing side of the splice location. Repeat the same splicing steps as covered above.

#### **4. Downspouts**

The LymTal provided down spouts can be applied to the Drain Guard Seal using similar bonding methods as covered in Splicing. Simply locate your downspout, cut the circular hole for the spout. Begin the bonding process by applying the Carlisle HP-250 Primer in a circular motion as was done with splicing. Once the primer has time to flash off, peel the backing tape from the downspout. Carefully align the downspout over the cut hole and press apply to the primed surface. Once again be sure to properly align since there is no ability to reposition once the bond is made. The final step in the process is to apply Carlisle Sure-Seal Lap Sealant (provided in caulking cartridges) along the circumference of the downspout.

#### **5. Cure Time**

The installation can be opened to traffic once the Drain Guard system is fully anchored into place and all splice connections have adequately cured.

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