

## **Iso-Flex Drain Guard**

### **Flexible Gutter System**

#### **PRODUCT OVERVIEW**

Iso-Flex Drain Guard is most commonly used to provide a flexible moisture management solution below a variety of expansion joint systems. Drain Guard incorporates a 60 mil cured Neoprene sheet that is mechanically attached to concrete substrates providing versatile moisture protection at expansion joint and construction joint locations. It is possible to locate Drain Guard in the bottom of formed blockouts, or the system can also be attached to the underside of structural slabs. The Drain Guard system also includes standard drain tube assemblies that provide for the removal of collected moisture, directing it to the facility drainage system. Ideal applications include parking garages, bridge joints, plaza decks, and other joints that require a high performance solution.

#### **PRODUCT ADVANTAGES**

- Designed to manage collection and removal of moisture at all joint locations
- Allows up to 100% joint movement
- Fast and easy installation
- The system remains flexible from -40°F to +220°F without softening or embrittlement

#### **DESCRIPTION**

Drain Guard is composed of a cured Neoprene sheet that is attached to the concrete substrate using aluminum termination bars. When installed in a properly sized joint, Drain Guard is designed to allow for up to 100% joint movement. Drain tube assemblies are provided for field attachment based upon project requirements. The system is available in continuous lengths up to 100 feet.

#### **INSTALLATION**

**Preparatory Work:** Surfaces to be sealed must be sound, dry, clean and free of oil, grease, laitance, rust and other foreign material that would prevent proper attachment. Ensure that the pertinent dimensions are within the tolerances specified for the Iso-Flex Drain Guard System. No priming or masking is required.

**To install:** Uncoil the Drain Guard Neoprene sheet material. Locate, and cut a hole where each drain tube assembly is to be located. Make sure that the hole is smaller than the drain tube adapter. Roughen up the bond surface around the holes. Wipe the perimeter area around each hole with solvent on a clean rag. Remove the protective backing tape from the drain tube adapter positioning it over the hole in the neoprene sheet. Using a seam roller, ensure full contact of the drain tube adapter.

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 anchors.

If utilizing end cap assemblies, or if splicing of the Neoprene sheet is required, lay out the Neoprene sheet, bottom side up. Roughen the sheet a minimum of 3.5" on each side of the splice. Locate one of the provided splice strips and peel away the protective tape. Evenly locate the splice strip adhesive side along the splice location. Use a seam roller to ensure complete adhesion. Flip the sheet assembly over so that it is right side up. Roughen the splice areas on this side. Lift the sheet at the seam location, opening up the seam. Install a bead of Silaprene sealant along the butt splice. Lower the sheet to a relaxed position forcing the seam shut, allowing the sealant to compress. Wipe off excess material.

Attached the completed Drain Guard assembly using the aluminum termination bars and hardware. Finally, apply a sealant bead along the beveled edge of the termination bar.

**SHORT FORM SPECIFICATION:**

Drain assembly shall be Iso-Flex Drain Guard as manufactured by LymTal International, Inc., 4150 S. Lapeer Rd., Lake Orion, MI, 48359. The system shall be a cured 60 mil Neoprene sheet secured with aluminum termination bars. The specified system shall be designed to provide for 100% joint movement. Provide factory fabricated drain tube and end cap assemblies. The manufacturer shall furnish a Certificate of Compliance with these requirements.

**WARRANTY:**

LymTal warrants that its products are manufactured free of defects and conform to the technical data listed. Under this warranty we will replace, at no charge, any material proven defective when applied in accordance with our written instructions for applications recommended by us as suitable for subject product. LymTal shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of the product.

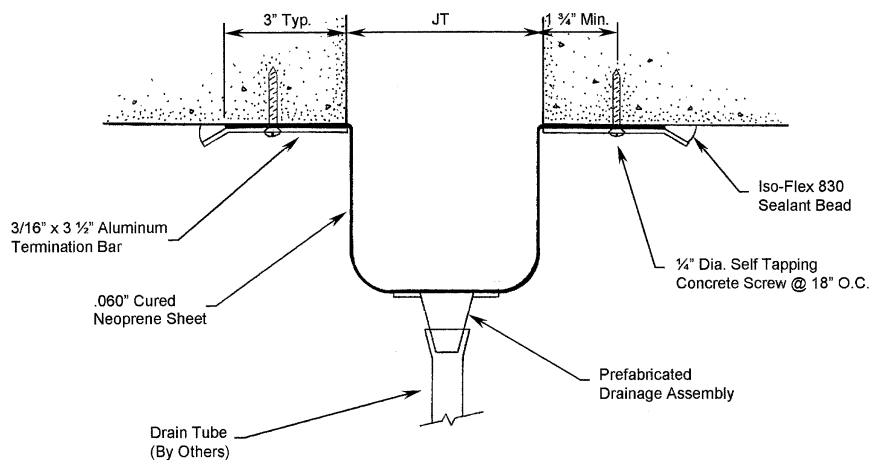
**PHYSICAL CHARACTERISTICS**

Thickness, inches	.060 +/- 10%
Length, feet	100 max.
Tensile Strength, min PSI	1800
Elongation, Ultimate, min %	300
Tear Resistance, min, lbf/inch	175
Brittleness Point Temp.	-40°F
Water Absorption, % increase in weight after 7 days @ 75°F	1%

**TECHNICAL SERVICES**

Analysis of particular project requirements and recommendations for the proper use of Drain Guard are available from the manufacturer and local representatives. Call 248-373-8100 or fax your detail to 248-373-3480.

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SYSTEM TYPE	MAXIMUM (JT)	MEDIAN (JT)	MOVEMENT
DG12	5.000 <i>127.001</i>	2.500 <i>63.500</i>	100%
DG18	11.000 <i>279.401</i>	5.500 <i>139.701</i>	100%
DG24	17.000 <i>431.802</i>	8.500 <i>215.901</i>	100%
DG36	28.000 <i>711.203</i>	14.000 <i>355.601</i>	100%
DG48	40.000 <i>1016.004</i>	20.000 <i>508.002</i>	100%

**LymTal International, Inc.**