

## **Iso-Flex® Xtreme Polywing** “Noise Reducing” Seismic Expansion Joint

### **PRODUCT DESCRIPTION**

The Iso-Flex Xtreme Polywing expansion joint system is a pivot guided, metallic cover plate system with sound absorbing polymeric embedment that has been designed to handle large or seismic type movement. The system design has standard polymeric edge embedment members and typically utilize aluminum cover plates.

### **BASIC USES**

Iso-Flex Xtreme Polywing expansion joint is a heavy-duty system that is appropriate for use in stadium, parking deck and other vehicular applications where large movement is expected.

### **ADVANTAGES**

- The system is capable of accommodating heavy vehicular traffic.
- The polymer embedment plates provide a sound absorbing surface that muffles live load noise.
- The flush surface profile allows for usage in pedestrian areas.
- The pivot guided cover plate design is capable of very large movements as found in seismic code areas.
- Excellent weatherability.

### **LIMITATIONS**

- Performance of the Iso-Flex Xtreme Polywing expansion joint is closely tied to preparation and installation techniques as well as structural behavior of the expansion joint gap. Maintaining close tolerances is essential to the success of the expansion joint system. Correct installation of this system is critical and should be performed only by an authorized applicator of products manufactured by LymTal International, Inc.

### **STANDARD COLORS**

Mill Finish Aluminum

### **INSTALLATION**

**Preliminary:** Blockouts to receive the Iso-Flex Xtreme Polywing expansion joints must be clean, dry, sound, very smooth, flat and free of voids, ridges, and sharp projections. Joint openings and blockouts must be properly sized.

**Preparation:** Prepare the substrate by sandblasting. Next, using a standard aluminum edge anchor as a template locate and drill the anchor locations. Once the anchor holes are drilled insert the anchor bolts and blow the blockout clean.

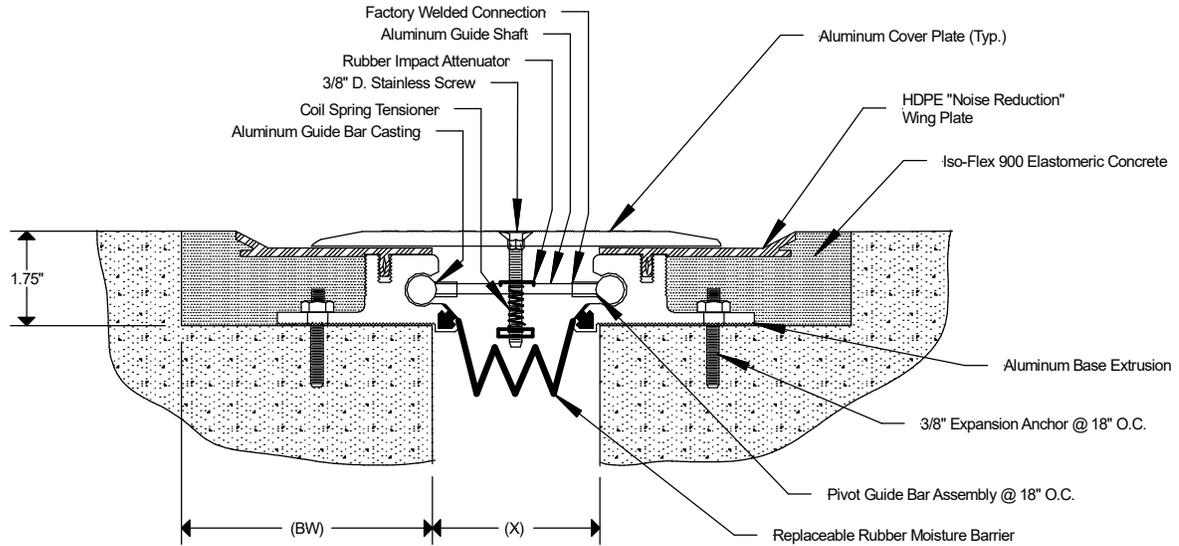
**Installation:** With the substrate prepared pull a chalk line to locate base member attachment. Using the base member as a template, drill holes, locate anchors and install the aluminum base members into place. Next attach the polymer wing plates to the base member. Mix and install Iso-Flex 900 Elastomeric Concrete into the blockout void area. Follow by sliding in the pivot bars along the base member. With the pivot bars roughly aligned, the cover plate can be located over the system and the alignment bolts can be installed.

### **PRECAUTIONS**

Refer to Material Safety Data Sheet for detailed health and safety information prior to use.

### **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.



### **Xtreme Polywing "Noise Reducing" System**

<b>Iso-Flex Xtreme XRP "Noise Reduced" Joint System</b>					
<b>SYSTEM TYPE</b>	<b>JOINT OPENING (X)</b>	<b>BLOCKOUT WIDTH (BW)</b>	<b>JOINT OPENING</b>		<b>TOTAL MOVEMENT</b>
			<b>MIN.</b>	<b>MAX.</b>	
<b>X20RP</b>	<b>2.00</b>	<b>6.00</b>	<b>1.50</b>	<b>3.00</b>	<b>1.50</b>
	<i>50.800</i>	<i>152.401</i>	<i>38.100</i>	<i>76.200</i>	<i>38.100</i>
<b>X40RP</b>	<b>4.00</b>	<b>6.00</b>	<b>1.50</b>	<b>6.00</b>	<b>4.50</b>
	<i>101.600</i>	<i>152.401</i>	<i>38.100</i>	<i>152.401</i>	<i>114.300</i>
<b>X60RP</b>	<b>6.00</b>	<b>6.00</b>	<b>1.50</b>	<b>9.00</b>	<b>7.50</b>
	<i>152.401</i>	<i>152.401</i>	<i>38.100</i>	<i>228.601</i>	<i>190.501</i>
<b>X80RP</b>	<b>8.00</b>	<b>6.00</b>	<b>1.50</b>	<b>12.00</b>	<b>10.50</b>
	<i>203.201</i>	<i>152.401</i>	<i>38.100</i>	<i>304.801</i>	<i>266.701</i>
<b>X100RP</b>	<b>10.00</b>	<b>9.00</b>	<b>1.50</b>	<b>15.00</b>	<b>13.50</b>
	<i>254.001</i>	<i>228.601</i>	<i>38.100</i>	<i>381.002</i>	<i>342.901</i>
<b>X120RP</b>	<b>12.00</b>	<b>9.00</b>	<b>1.50</b>	<b>18.00</b>	<b>16.50</b>
	<i>304.801</i>	<i>228.601</i>	<i>38.100</i>	<i>457.202</i>	<i>419.102</i>
<b>X150RP</b>	<b>15.00</b>	<b>12.00</b>	<b>1.50</b>	<b>22.50</b>	<b>21.00</b>
	<i>381.002</i>	<i>304.801</i>	<i>38.100</i>	<i>571.502</i>	<i>533.402</i>
<b>X180RP</b>	<b>18.00</b>	<b>12.00</b>	<b>1.50</b>	<b>27.00</b>	<b>25.50</b>
	<i>457.202</i>	<i>304.801</i>	<i>38.100</i>	<i>685.803</i>	<i>647.703</i>

**NOTE:**

1. All extruded aluminum members shall be 6063-T6 alloy.
2. All blockout fill shall be Iso-Flex 900 elastomeric concrete.
3. System anchorage shall be 3/8" diameter @ 18" O.C.
4. Pivot Guide Bars shall be located @ 18"

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### **LymTal International, Inc.**

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