

## Iso-Flex® Pressure Lok Expansion Joint System

### PRODUCT DESCRIPTION

Iso-Flex Pressure Lok System is made up of an extruded, Neoprene rubber seal (EPDM available on request) and a specially developed, two-component epoxy adhesive. Once the seal is epoxied into place, this system provides excellent protection against the intrusion of moisture and debris into an expansion joint gap.

### BASIC USES

The Iso-Flex Pressure Lok System is used to seal most types of small movement expansion joints in parking structures, stadiums, plazas, and other types of concrete structures.

### ADVANTAGES

- The system allows for movement of the structure in any direction without joint failure.
- The seal is bonded into place using a thixotropic epoxy paste that provides a continuous, tenacious anchoring system because of our unique air-evacuation of the seal during the installation process.
- The system provides a large movement range.
- The seal provides a relatively flat profile surface that reduces tripping hazards and the collection of debris in the joint.
- The system is able to withstand dramatic temperature changes (-30°F to 140°F).
- The limited top exposure area of the seal and its unique design does not allow the seal to rise above the surface of the adjoining concrete.

### LIMITATIONS

- Performance of the Iso-Flex Pressure Lok System is closely tied to preparation and installation techniques as well as structural behavior of the expansion joint. Maintaining close tolerances is essential to the success of this expansion joint system, and this system should only be installed by approved applicators.

<b>NEOPRENE SEAL</b>		
<b>Technical Data From Laboratory Tests</b>		
(Field Properties May Vary)		
Property	Test Method	Test Results
Tensile Strength	ASTM D412	2000 psi min
Elongation @ break	ASTM D412	250% min
Hardness Type A Durometer	ASTM 2240 (modified)	55 ± 5
Compression Set (70 hours @ 212°F)	ASTM D573	
Tensile strength max	_____	20% loss
Elongation max	_____	20% loss
Hardness Type A Durometer	_____	0 to + 10 pts
Oil Swell (70 hours @ 212°F) weight change	ASTM Oil 3 ASTM D471	45 max
U.V. Resistance	_____	Excellent

<b>ADHESIVE</b>		
<b>Technical Data From Laboratory Tests</b>		
(Field Properties May Vary)		
Property	Test Method	Test Results
Material	_____	Two component thixotropic paste
Tensile Strength	ASTM D412	4200 psi
Axial Compression	_____	8950 psi
Solids Hardness	_____	5 MOHS
Pot Life	_____	60 minutes @ 68°F (20°C)
Flash Point	_____	Greater than 200°F (93°C)
Initial Cure	_____	24 hours
Final Cure	_____	7 days @ 68°F

## INSTALLATION

**Preliminary:** Joint openings to receive the Iso-Flex Pressure Lok System must be clean, dry, sound, relatively smooth and free of voids, ridges, and sharp projections. The expansion joint gaps must also be properly sized. Any areas not meeting these criteria must be repaired.

**Preparation:** The joint openings **must be sandblasted** just prior to application of the two-component epoxy adhesive.

**Installation:** Immediately prior to the seal installation, the joint gap opening must be blown with compressed air. The Pressure Lok System is installed by first cleaning the sidewalls of the seal. This involves sandblasting or wire brushing while using the Profile Conditioner. The seal is then wiped clean with cotton rags. Second, apply a thin layer of the two-component adhesive to the sides of the seal (enough to fill the ribs) and to the sidewalls of the expansion joint gap. If necessary, air from the inside of the seal is vacuumed out to compress the seal. Once the body of the seal is slightly compressed it is easy to slip it into the joint gap opening. After proper positioning of the seal, release the vacuum and allow the seal to expand against the walls of the joint gap. **Important:** All seals are to be installed in a state of compression.

## MAINTENANCE

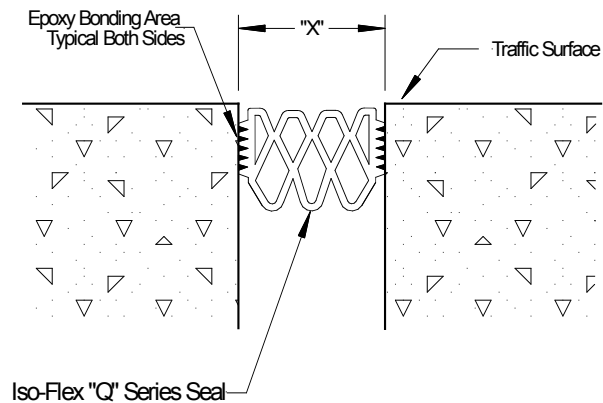
Iso-Flex Pressure Lok Systems may be easily repaired while in service using methods recommended by the manufacturer.

## PRECAUTIONS

To ensure safe installation of the Iso-Flex Pressure Lok System, please refer to the Material Safety Data Sheets (MSDS) that accompany each product shipment.

## 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.



SEAL TYPE	MOVEMENT RANGE	JOINT OPENING SIZE (x)		INSTALLATION WIDTH	
		Minimum (x)	Maximum (x)	Minimum	Maximum
Q10	<b>1.375</b>	<b>0.625</b>	<b>2.000</b>	<b>0.750</b>	<b>1.500</b>
	<i>34.925</i>	<i>15.875</i>	<i>50.800</i>	<i>19.050</i>	<i>38.100</i>
Q15	<b>1.750</b>	<b>1.000</b>	<b>2.750</b>	<b>1.000</b>	<b>2.000</b>
	<i>44.450</i>	<i>25.400</i>	<i>69.850</i>	<i>25.400</i>	<i>50.800</i>
Q20	<b>2.250</b>	<b>1.250</b>	<b>3.500</b>	<b>1.500</b>	<b>2.500</b>
	<i>57.150</i>	<i>31.750</i>	<i>88.900</i>	<i>38.100</i>	<i>63.500</i>
Q30	<b>3.000</b>	<b>1.500</b>	<b>4.500</b>	<b>2.250</b>	<b>3.500</b>
	<i>76.200</i>	<i>38.100</i>	<i>114.300</i>	<i>57.150</i>	<i>88.900</i>
Q40	<b>3.000</b>	<b>2.500</b>	<b>5.500</b>	<b>3.000</b>	<b>4.000</b>
	<i>76.200</i>	<i>63.500</i>	<i>139.701</i>	<i>76.200</i>	<i>101.600</i>
Q50	<b>3.500</b>	<b>3.000</b>	<b>6.500</b>	<b>4.000</b>	<b>5.000</b>
	<i>88.900</i>	<i>76.200</i>	<i>165.101</i>	<i>101.600</i>	<i>127.001</i>

Note: Bold dimensions are in inches and italicized are in millimeters

Revised 11/17

## LymTal International, Inc.

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