

## Iso-Flex® Steel Strip Seal Expansion Joint System

### PRODUCT DESCRIPTION

The Iso-Flex Steel Strip Seal Expansion Joint System is an extruded, elastomeric rubber material that mechanically locks, and is bonded, into a steel retainer. When properly installed, this system provides an excellent barrier against the intrusion of moisture and debris into an expansion joint gap.

### BASIC USES

The Iso-Flex Steel Strip Seal Expansion Joint System is used to seal expansion joints located in heavy, high volume, high-speed traffic areas in parking structures, stadiums, and other types of concrete structures.

### ADVANTAGES

- The seal is mechanically locked and bonded into a steel retainer to form a barrier against the intrusion of water and debris.
- The Iso-Flex Steel Strip Seal Expansion Joint System can be fabricated to accommodate any type of angle, such as skews, sidewalks, parapets and medians while still maintaining its water tight integrity.
- The system can accommodate movement ranges up to 4".
- Unique design allows for easy installation of the seal element.
- The Iso-Flex Steel Strip Seal Expansion Joint System can incorporate the Iso-Flex 900 Elastomeric Concrete Header System where necessary.

### LIMITATIONS

- Can not accommodate movements greater than 4 inches.

### INSTALLATION

**Preliminary:** Protect all expansion joint component parts from damage during placement of concrete and work in adjacent areas.

<b>ISO-FLEX SANTOPRENE SEAL</b>		
<b>Technical Data From Laboratory Tests</b>		
(Field Properties May Vary)		
Property	Test Method	Test Results
Material		Thermoplastic Rubber
Hardness	ASTM D2240	64A ± 3
Specific Gravity	ASTM D297	.97 ± 2
Tensile Strength	ASTM D412	1000 psi
Ultimate Elongation	ASTM D412	400%
Brittle Point	ASTM D746	-76%
High Temp. Recovery (70 hours @ 212°F)	—	82%

<b>ISO-FLEX 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 D395 Method B	40%
Oven aging (70 hours @ 212°F)	ASTM D573	
*Tensile strength loss	—	20% max
*Elongation loss	—	20% max
*Hardness Type A Durometer (points to change)	—	0 to +10
Oil Swell (70 hours @ 212°F) weight change	ASTM oil 3	45% max
Ozone Resistance 20% strain, 300 pphm, in air @ 104°F	ASTM D1149	No Cracks

**Preparation:** The expansion joint seals must be properly sized for the joint gap opening. The joint systems must be set to the proper width for the ambient temperature at the time of installation. Properly align all steel extrusions and shapes prior to field welding operations to ensure proper joint performance and watertightness.

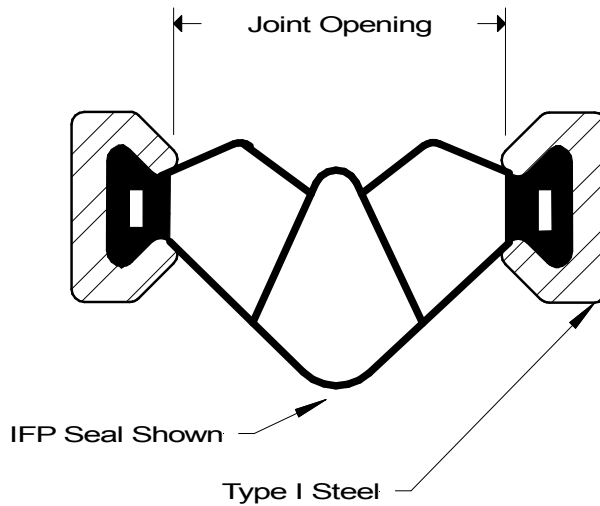
**Installation:** The Iso-Flex Strip Seal Expansion Joint System shall be installed in strict accordance with the manufacturer's typical details.

**PRECAUTIONS** To ensure safe installation of the Iso-Flex Steel Strip Seal Expansion Joint 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		INSTALLATION WIDTH		
		Minimum	Maximum	Minimum	Mid-Range	Maximum
IFS-400	<b>4.000</b>	<b>0.500</b>	<b>4.500</b>	<b>2.000</b>	<b>2.500</b>	<b>3.500</b>
	<i>101.600</i>	<i>12.700</i>	<i>114.300</i>	<i>50.800</i>	<i>63.500</i>	<i>88.900</i>
IFP-400	<b>4.000</b>	<b>1.000</b>	<b>5.000</b>	<b>2.000</b>	<b>3.000</b>	<b>3.500</b>
	<i>101.600</i>	<i>25.400</i>	<i>127.001</i>	<i>50.800</i>	<i>76.200</i>	<i>88.900</i>

Note:

1. All bolded dimensions are in inches
2. Italicized figures represent millimeters.
3. Installation Width "Mid-Range" represents mid-range of the total movement cycle.

Revised: 3/04

**LymTal International, Inc.**

4150 South Lapeer Road • Lake Orion, MI 48359 • Tel (248) 373-8100 • Fax (248) 373-3480