

## Iso-Flex<sup>®</sup> Factory Molded Expansion Joint System

### PRODUCT DESCRIPTION

The Iso-Flex Factory Molded Urethane Expansion Joint Sealing System consists of premolded urethane seals, produced under factory controlled climatic conditions. Iso-Flex polymeric nosing, traffic plates, primers, bedding and bond breakers are as recommended by the manufacturer. The premolded seal is shipped to the job site in its cured state and installed in the field by adhering in place with Iso-Flex 980 Polymeric Nosing compound. Traffic plates, Iso-Flex Bedding Compound, Iso-Flex Primers and bond breakers are included in the installation process as recommended to complete the installed system.

### BASIC USES

Iso-Flex Factory Molded Expansion Joint Seals are designed for use where watertight structural expansion joint performance is required. Systems for wheel and foot traffic or non-traffic installations are available. Parking structures, stadiums, plazas, sewage and water treatment facilities, concrete roof decks and bridges are all typical applications for the system.

### STANDARD MODELS AND SIZES

#### *Traffic Seal Model Numbers:*

TS-30, TS-40, TS-60, TS-80, TS-100, TS-120.

For use under wheel or foot traffic conditions. These systems include a traffic support plate under the seal and are installed flush to the traffic surface.

#### *Surface Seal Model Numbers:*

SS30, SS40, SS60, SS80, SS100.

These systems are designed for surface installations and may or may not include a traffic support plate. Surface seals may be used in horizontal or vertical applications.

#### *Wall Seal Model Numbers:*

WS30, WS40, WS60, WS80, WS100.

These systems are designed for use in sealing expansion joints which may abut a wall. Wall seals may be recessed flush to the surface or installed directly on top of it. Traffic plates are not a part of the standard wall seal series.

### ISO-FLEX FACTORY MOLDED SEAL

#### Technical Data From Laboratory Tests

(Field Properties May Vary)

Property	Test Method	Test Results
Movement Capability	ASTM C719	±16%
Tensile Strength	ASTM D412	250 psi
Ultimate Elongation	ASTM D412	700%
Hardness (Shore A)	ASTM C661	30 ± 5
Low Temperature (Flexibility @ -40°F)	ASTM D1790	Pass
Service Temperature Range	—	-40°F to 150°F

### ISO-FLEX 980 POLYMERIC NOSING

#### Technical Data From Laboratory Tests

(Field Properties May Vary)

Property	Test Method	Test Results
Movement Capability	ASTM C719	± 12.5%
Tensile Strength	ASTM D412	1000 psi
Ultimate Elongation	ASTM D412	200%
Hardness (Shore A)	ASTM C661	55 ± 5
Weight Loss, Heat Aging	ASTM C792	< 5%
Peel Adhesion - Concrete	ASTM C794	50 lbs.
Pot Life @ 70°F	—	30 min.
Shelf Life @ 70°F	—	6 months in sealed container
Cure Time @ 75°F	ASTM C920	24 hours
Low Temperature (Flexibility @ -40°F)	ASTM D1790	Pass
Service Temperature	—	-40°F to 150°F

### ADVANTAGES

- Factory molding ensures proper cure and consistent seal thickness.
- Changes in direction and/or plane can be easily accommodated.

- Textured surface for skid resistance.
- Available in UL listed, two hour rated configuration.
- Can be specially fabricated in custom colors.
- Special sizes are available upon request, including seals designed for seismic applications.
- Conforms to Americans with Disabilities Act (ADA) guidelines.

### LIMITATIONS

- The seal can be subjected to damage from snowplows, high pressure washing and mechanical floor scrubbers.
- Use under heavy trucks, buses or high speed traffic is not recommended.
- Standard size seals have been developed for various movement conditions.
- The system will function best when installed at the mean annual temperature range.
- The seals perform best when vertical deflection, or shear movement is limited through the use of load transfer devices or appropriate bearings.

### INSTALLATION

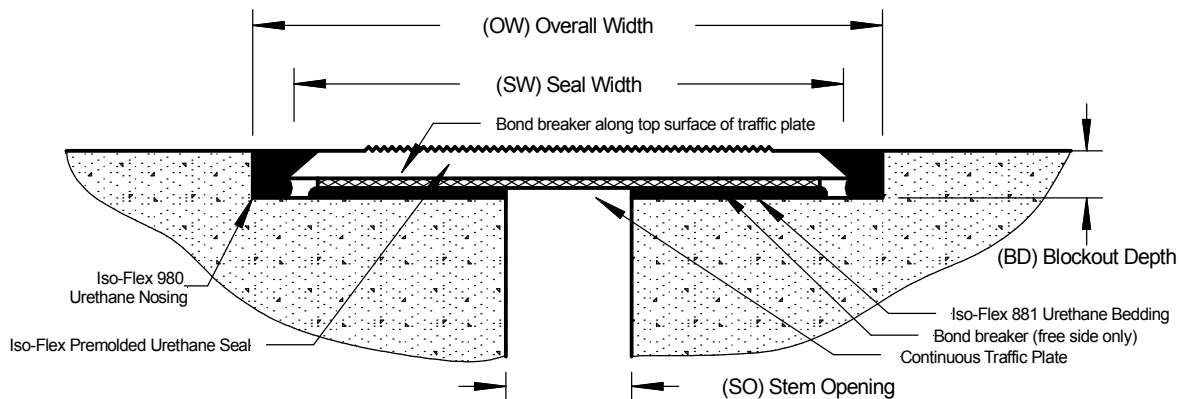
Procedures for installation of the product are provided by the system manufacturer. Technical assistance during design and construction is also available from the manufacturer. The recesses to receive the seal are normally provided by others in accordance with recommendations of the system manufacturer.

### PRECAUTIONS

To ensure safe installation of the Iso-Flex Factory Molded 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.



System Type	Overall Width (OW)	Seal Width (SW)	Max. Stem Opening (SO)	Blockout Depth (BD)	Expected Mvmt.	Plate Size
TS30	4"	3"	3/4"	5/8"	1/2"	2-1/4" x .06
TS40	5"	4"	1"	5/8"	3/4"	3-1/2" x .06
TS60	7"	6"	1-1/2"	5/8"	1"	5" x .09
TS80	9"	8"	2-1/4"	5/8"	1-1/2"	6-1/2" x .09
TS100	11"	10"	3"	3/4"	2"	8" x .125
TS120	13"	12"	3"	3/4"	2-1/2"	8" x .125

Request Drawing No. 1054 for TS/SES Series, Drawing No. 1203 for SS Series and Drawing No. 1205 for WS Series.

Revised 12/08

### LymTal International, Inc.

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