

Iso-Flex® Winged Expansion Joint Sealing Systems

PRODUCT DESCRIPTION

Iso-Flex "J" Series Winged Expansion Joint Sealing System consists of a thermoplastic prefabricated, compartmentalized, elastomeric, compression type of seal with integral perforated wings.

Iso-Flex "K" Series Winged Expansion Joint Sealing System consists of a thermoplastic elastomeric, membrane strip type of seal with integral perforated wings.

Both expansion joint seal types are continuously bonded into a concrete blockout with Iso-Flex 900 Elastomeric Concrete header material.

BASIC USES

The Iso-Flex "J" and "K" Winged Expansion Joint Sealing Systems are used to seal expansion joints exposed to wheel and/or pedestrian traffic in parking structures, stadiums, plazas, and other types of concrete structures where watertightness is required.

ADVANTAGES

- The winged seal is bonded into a flexible, elastomeric concrete header that provides a continuous watertight anchoring system.
- The seal provides a relatively low profile surface exposure minimizing the top opening, which reduces tripping hazards and the collection of debris in the joint.
- The compartmentalized nature of the "J" seal provides secondary protection against leakage if the seal is punctured at the surface. Additionally, in the unlikely event that the top of the seal is punctured, since the seal is made of a thermoplastic rubber, repair is simple.
- 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, hence making it less susceptible to damage from normal, everyday traffic and abusive snowplowing practices.

LIMITATIONS

- Performance of the Iso-Flex Winged Expansion Joint Sealing 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 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.

INSTALLATION

Preliminary: Blockouts to receive the Iso-Flex J & K Winged Expansion Joint Sealing System must be clean, dry, sound, relatively smooth and free of voids, ridges, and sharp projections. Joint openings and blockouts must be properly sized.

LABORATORY TECHNICAL DATA

(Field Properties May Vary)

Property	Test Method	Seal	Iso-Flex 900
Tensile Strength	ASTM D412	1010 psi (67A) 1280psi (73A)	1680 psi
Elongation @ break	ASTM D412	450% (67A) 490% (73A)	240% min
Tear Strength	ASTM D624	138(67A) 159(73A)	195 lbs/inch
Brittle Point, °F	ASTM D746	-76 (67A) -76 (73A)	_____
Compression Set 168 hrs. @ 73°F	ASTM D395	23% (67A) 26% (73A)	_____
Compression Set 168 hrs. @ 212°F	ASTM D395	32% (67A) 44% (73A)	_____
Hardness	Shore A	_____	80± 3
Compress. Strength 5% deflection	ASTM D695	_____	1442 psi min. 96% min.
Resiliance, %			
Adhesion Properties Bond to concrete	_____	_____	422 psi min.
Ozone Resistance	ASTM D1149	No Cracks	No Cracks
Water Absorption	ASTM D570	_____	2%
U.V. Resistance	_____	Excellent	Excellent

Preparation: The blockouts must be sandblasted just prior to application of the Iso-Flex Primer #10. The primer must be applied to all concrete surfaces that will come in contact with the Iso-Flex 910 Tack Coat and the Iso-Flex 900 Elastomeric Concrete header material.

Installation: Begin by installing the seal into the joint opening. The Primer is then applied to all areas of the blockout. When the primer is dry, the Iso-Flex 910 Tack Coat material is gunned under the wings in sufficient amount to rise through the perforations. After the Tack Coat is firmed up, the Iso-Flex 900 Elastomeric Concrete Header can then be mixed installed and tooled to a smooth surface.

PRECAUTIONS

To ensure safe installation of the Iso-Flex Winged Expansion Joint Sealing Systems, please refer to the Material Data Safety Sheet for detailed health and safety information prior to use.

MAINTENANCE

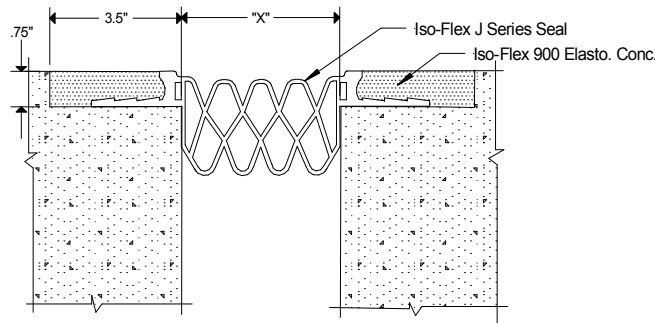
Iso-Flex J & K Winged Expansion Joint Sealing Systems may be easily repaired while in service using methods recommended by the manufacturer.

WARRANTY

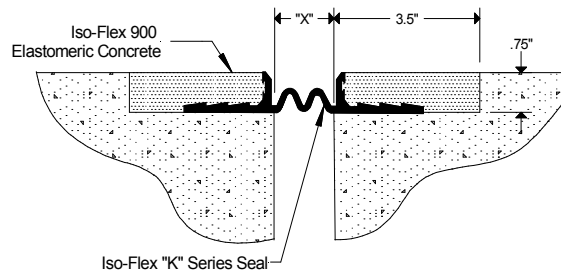
LymTal warrants that its products are manufactured free of defects and conform to the technical data listed. Under this warranty we will replace, at no charge, any material proven defective when applied in accordance with our written instructions for applications recommended by us as suitable for subject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

Revised 12/08

SEAL TYPE	MOVEMENT RANGE	SYSTEM DEPTH	JOINT OPENING SIZE (X)		INSTALLATION WIDTH		
			Minimum (x)	Maximum (x)	Minimum	Normal	Maximum
J23L	2.000 50.800	2.250 57.150	0.625 15.875	2.625 64.050	1.000 25.400	1.500 38.100	2.375 60.325
J30L	2.750 69.850	2.500 63.500	0.750 19.050	3.500 88.900	1.250 31.750	2.000 50.800	3.250 82.550
J40L	3.000 76.200	2.750 69.850	1.500 38.100	4.500 114.300	2.000 50.800	3.000 76.200	4.250 107.950
J50L	3.750 95.250	3.000 76.200	1.750 44.450	5.500 139.701	2.500 63.500	4.000 101.600	5.250 133.351
J60L	3.500 88.900	3.000 76.200	3.000 76.200	6.500 165.101	3.500 88.900	5.000 127.001	6.250 158.751
K15	2.000 50.800	0.750 19.050	0.500 12.700	2.500 63.500	1.000 25.400	1.500 38.100	2.000 50.800
K20	3.250 82.550	1.250 31.750	0.750 19.050	4.000 101.600	1.500 38.100	2.125 53.975	2.750 69.850
K80	8.750 222.251	1.250 31.750	1.250 31.750	10.000 254.001	1.500 38.100	6.000 152.401	8.000 203.201



J Series System



K Series System

LymTal International, Inc.

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