

## Iso-Flex® BC Series Compression Seal

### PRODUCT DESCRIPTION

The Iso-Flex BC Series Compression Seal is an extruded, Neoprene rubber material meeting the physical requirements outlined in ASTM D3542-82. When compressed into place this system provides an excellent seal against the intrusion of moisture and debris into an expansion joint gap.

### BASIC USES

The Iso-Flex BC Series Compression Seal is designed for use in highway bridge expansion joints or other joints requiring a heavy duty compression seal system.

### ADVANTAGES

- The seal is compressed into place using our Iso-Flex Lube Adhesive.
- The seal provides a heavy duty and durable solution in heavy traffic applications.
- The compartmentalized nature of the BC Series seal provides secondary protection against leakage if the seal is punctured at the surface.

### LIMITATIONS

- Performance of the Iso-Flex Compression Seal Expansion Joint System is closely tied to the structural behavior of the expansion joint. Maintaining close tolerances is essential to the success of the expansion joint system, and this system should only be used in areas where small movements are expected.

### INSTALLATION

**Preliminary:** The Joint System opening must be clean, dry, sound, relatively smooth and free of voids, ridges, and sharp projections.

**Preparation:** The expansion joint seals must be properly sized for the joint gap opening.

**Installation:** The Iso-Flex Compression Seal is installed by first applying a thin layer of Iso-Flex Lube Adhesive to the side walls of the expansion joint

gap. Then, the seal is compressed into the joint gap opening.

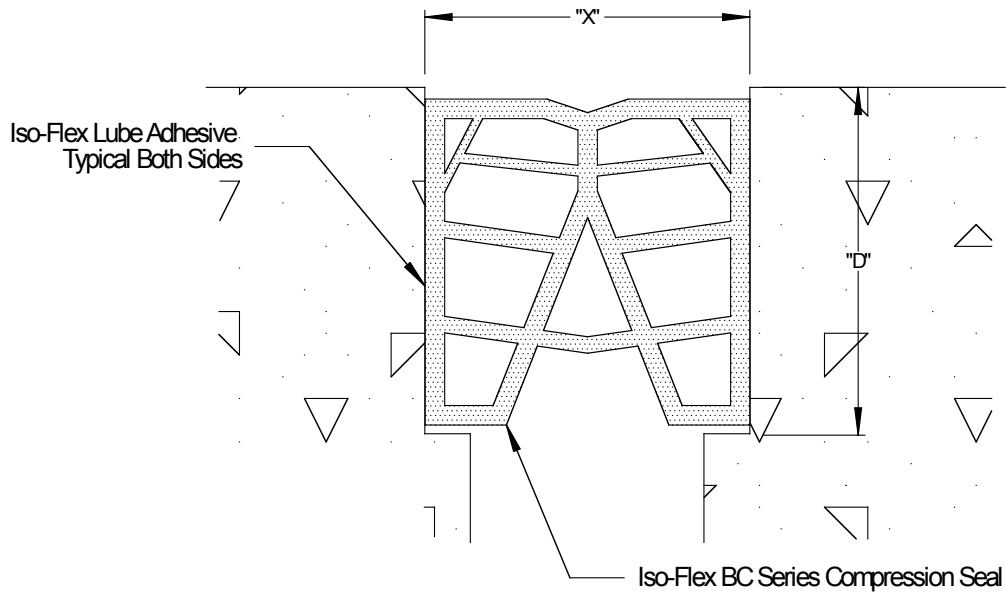
### PRECAUTIONS

To ensure safe installation of the Iso-Flex Compression Seal 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.

ISO-FLEX NEOPRENE SEAL "BC" System Meeting ASTM D3542-82		
Property	Test Method	Test Results
Material		Neoprene
Hardness	ASTM D2240	55A ± 5
Oven Aging	ASTM D573	.
Tensile Strength	Max Loss	20%
Elongation	Max Loss	20%
Hardness	Points Change	0 to 10
Tensile Strength	ASTM D412	2000 psi, min
Elongation at Break	ASTM D412	250%, min
Ozone Resistance	ASTM D1149	No cracks
High Temp. Recovery (70 hours @ 212°F)	—	85%, min.



SEAL TYPE	MOVEMENT RANGE	JOINT OPENING SIZE (X)		BLOCKOUT DEPTH "D"	NOM. SEAL DIMENSIONS	
		Minimum (x)	Maximum (x)		Width	Depth
BC-1250	<b>0.500</b>	<b>0.560</b>	<b>1.060</b>	<b>1.63</b>	<b>1.250</b>	<b>1.250</b>
	<i>12.700</i>	<i>14.224</i>	<i>26.924</i>	<i>41.402</i>	<i>31.750</i>	<i>31.750</i>
BC-1625	<b>0.600</b>	<b>0.730</b>	<b>1.380</b>	<b>2.250</b>	<b>1.630</b>	<b>1.880</b>
	<i>15.240</i>	<i>18.542</i>	<i>35.052</i>	<i>57.150</i>	<i>41.402</i>	<i>47.752</i>
BC-1750	<b>0.700</b>	<b>0.790</b>	<b>1.490</b>	<b>2.400</b>	<b>1.750</b>	<b>1.750</b>
	<i>17.780</i>	<i>20.066</i>	<i>37.846</i>	<i>60.960</i>	<i>44.450</i>	<i>44.450</i>
BC-2000	<b>0.750</b>	<b>0.950</b>	<b>1.700</b>	<b>2.750</b>	<b>2.000</b>	<b>2.000</b>
	<i>19.050</i>	<i>24.130</i>	<i>43.180</i>	<i>69.850</i>	<i>50.800</i>	<i>50.800</i>
BC-2250	<b>0.900</b>	<b>1.010</b>	<b>1.910</b>	<b>3.000</b>	<b>2.250</b>	<b>2.330</b>
	<i>22.860</i>	<i>25.654</i>	<i>48.514</i>	<i>76.200</i>	<i>57.150</i>	<i>59.182</i>
BC-2500	<b>1.000</b>	<b>1.130</b>	<b>2.130</b>	<b>3.200</b>	<b>2.500</b>	<b>2.500</b>
	<i>25.400</i>	<i>28.702</i>	<i>54.102</i>	<i>81.280</i>	<i>63.500</i>	<i>63.500</i>
BC-3000	<b>1.200</b>	<b>1.340</b>	<b>2.550</b>	<b>4.250</b>	<b>3.000</b>	<b>3.250</b>
	<i>30.480</i>	<i>34.036</i>	<i>64.770</i>	<i>107.950</i>	<i>76.200</i>	<i>82.550</i>
BC-3500	<b>1.400</b>	<b>1.580</b>	<b>2.980</b>	<b>4.450</b>	<b>3.500</b>	<b>3.500</b>
	<i>35.560</i>	<i>40.132</i>	<i>75.692</i>	<i>113.030</i>	<i>88.900</i>	<i>88.900</i>
BC-4000	<b>1.650</b>	<b>1.750</b>	<b>3.400</b>	<b>5.630</b>	<b>4.000</b>	<b>4.000</b>
	<i>41.910</i>	<i>44.450</i>	<i>86.360</i>	<i>143.003</i>	<i>101.600</i>	<i>101.600</i>
BC-4500	<b>1.770</b>	<b>2.030</b>	<b>3.830</b>	<b>6.130</b>	<b>4.500</b>	<b>4.500</b>
	<i>44.958</i>	<i>51.562</i>	<i>97.282</i>	<i>155.703</i>	<i>114.300</i>	<i>114.300</i>
BC-5000	<b>2.350</b>	<b>1.900</b>	<b>4.250</b>	<b>6.250</b>	<b>5.000</b>	<b>5.000</b>
	<i>59.690</i>	<i>48.260</i>	<i>107.950</i>	<i>158.751</i>	<i>127.001</i>	<i>127.001</i>
BC-6000	<b>2.900</b>	<b>2.200</b>	<b>5.100</b>	<b>7.750</b>	<b>6.000</b>	<b>6.000</b>
	<i>73.660</i>	<i>55.880</i>	<i>129.541</i>	<i>196.851</i>	<i>152.401</i>	<i>152.401</i>

**Chart Notes:**

1. All bolded dimensions are in inches.
2. Italicized figures represent millimeters.
3. The "Blockout Depth" represents the necessary depth to accommodate the seal at full compression, plus a .25" recess.

**LymTal International, Inc.**

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