

# Expansion Joint System



## Dow Building Solutions

### DOW CORNING X.J.S. EXPANSION JOINT SYSTEM

The X.J.S. Expansion Joint System is a revolutionary new concept in expansion joint construction and rehabilitation, combining a tough, wear-resistant polymer for expansion joint nosing and rapid-curing, high movement silicone for joint sealing. The system, which is cold applied, is specifically designed to provide a watertight, chemical-resistant seal to accommodate high traffic loads and remain pliable in cold and warm temperatures. Also, the silicone sealant in the system will bond to itself. This is ideal for maintenance applications where only one traffic lane can be sealed at a time, but where a continuous seal is required when the adjacent lanes are eventually sealed.

The rapid curing ability of the X.J.S. System makes it an excellent choice for highways, bridges, airfields, parking decks, and other high volume traffic areas that require short closure times. Non-rush hour installation time is possible, helping to avoid traffic backups and costly overtime. These traffic areas may be opened shortly after installation. In addition, the system is a cost-effective, easily repairable method for reconstruction of failed expansion joints, at a fraction of the cost of conventional joint repair alternatives.

#### Silspec 900 Polymer Nosing System

A two-component, rapid curing liquid polymer. Due to its relatively low viscosity, Silspec 900 PNS is easy to mix and place. It cures to a dense, semiflexible polymer which is resistant to chemicals, weather, abrasion, and impact. The polymer is mixed with Silspec Blended Aggregate. this combination forms a polymer-based mortar for joint repair or nosing.

#### Dow Corning 902 RCS Joint Sealant

A two-component, easy-to-install, 100 percent silicone rubber sealant designed to seal expansion joints. The rapid curing ability allows it to accommodate typical daily thermal movements and/or differential joint movement caused by traffic. Because it is self-leveling, the system can conform to irregularly shaped joints without tooling.

Figure 1: Armor Joint Repair

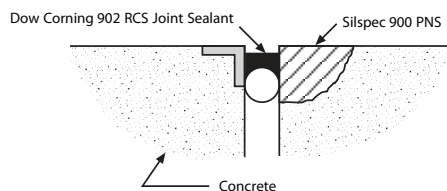
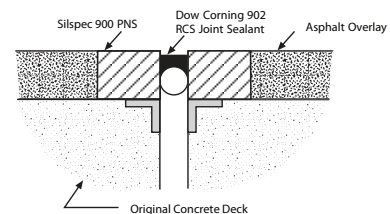


Figure 3: Asphalt Overlays



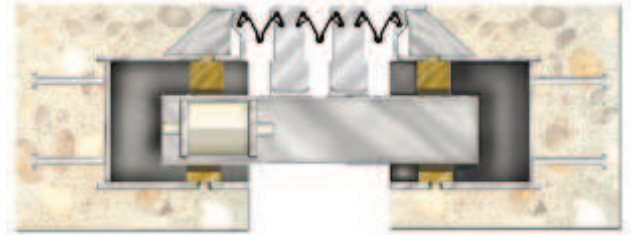
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## Wabo Modular Joint System - D & STM Series

### Description:

The Wabo Modular is designed for use in heavy trafficked bridge structures requiring movements in excess of 4 inches. This joint system allows the bridge deck to move while maintaining a smooth watertight riding surface. Engineered to last longer than the bridge decks they protect, Wabo Modular joint system longevity comes from the steel multiple support bar system, which combines the strength to support traffic loads and impacts with the flexibility to accommodate continual structure movement. Each Wabo Modular is made to order and available in two styles, the Wabo Modular with a box seal (D series), which utilizes a double layer sealing element and the Wabo Modular with a strip seal (STM series).



### Features/Benefits:

- Watertightness
- Durable
- Versatile

### Recommendations:

- Sealing joints on bridges with movements greater than 4 inches
- Rehabilitation or new construction
- High-impact conditions

