

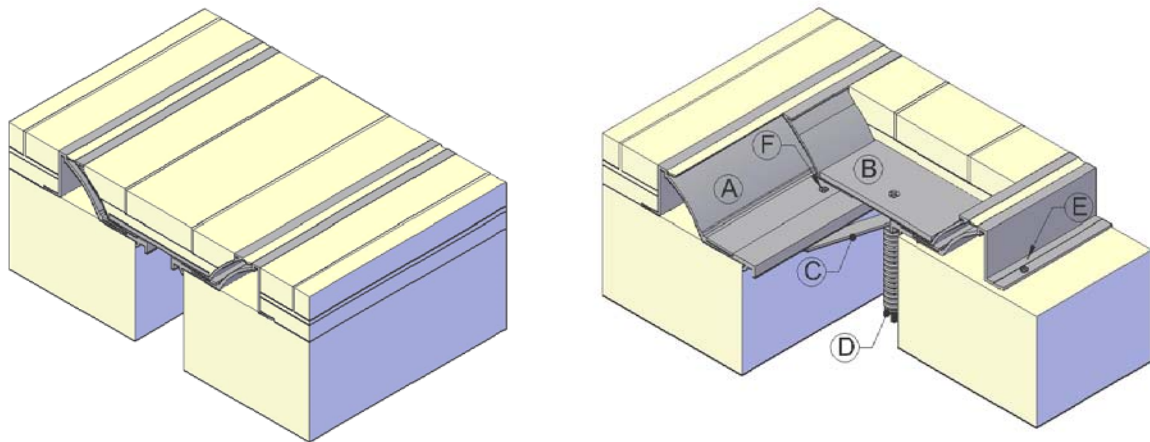
# PS System

## Installation Instructions

**P**s System - The following installation instructions are very important. Read them carefully, and be sure you understand them completely before you begin any work. Refer to Balco shop drawings for placement dimensions and anchor spacing.

### Parts:

- A. Base Member (PS501, PS401, 1/8" Aluminum Plate - Factory Assembled)
- B. Pan Cover (PS103 & 1/4" Aluminum Plate - Factory Assembled)
- C. Pin Bar
- D. Spring Assembly (Bolt, Spring, Weld Nut)
- E. Hex Head Tapcon
- F. Flat Head Tapcon



### Step 1:

This system requires that the floor slab be blocked-out for installation. Reference Balco approved shop drawings for block-out dimensions. Ensure that the block-out is level and that the concrete has completely set before proceeding with installation.

### Step 2: Base Member Installation

Select a factory assembled base member and place into position for installation. Ensure that the base member is level and properly aligned before proceeding.



**Step 2: Base Member Installation (Continued)**

Mark and drill base member anchor locations. Using the drilled base member as a template, mark and drill slab anchor holes. Anchors should be spaced a maximum of 3" (76mm) from each end. Reference Balco approved shop drawings for additional anchor spacing requirements.

*If fire barrier is to be installed with the expansion joint cover, anchor hole spacing should reflect fire barrier anchor spacing requirements.*

**Step 2a: Fire Barrier / Water Barrier Installation**

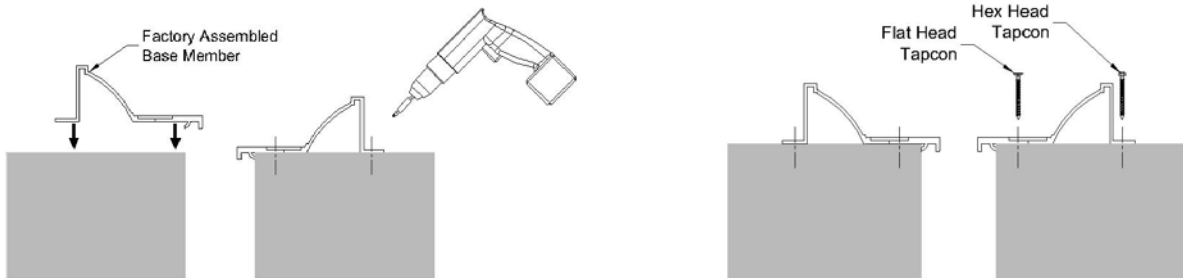
If required, fire barrier or water barrier should be installed at this time. Reference the appropriate instructions for information on how to install these products.

**Step 3: Secure Base Member to Slab**

Secure the base member to the slab using the factory provided anchors. Ensure that the correct anchor types are used at each location. (Repeat as necessary for each subsequent base member.)

**Important Note:**

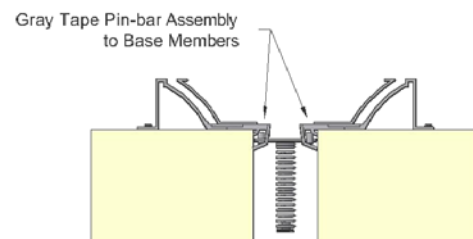
For installations exposed to significant daily or seasonal temperature changes, it is necessary to leave a gap between adjoining base member extrusions. This gap allows for thermal expansion.

**Step 4: Tape Pin-bars to Base Members**

Select a section of pan cover and the appropriate number of pin-bars for the section of pan cover being installed. Each pre-drilled pan-cover bolt hole requires (1) pin-bar assembly.

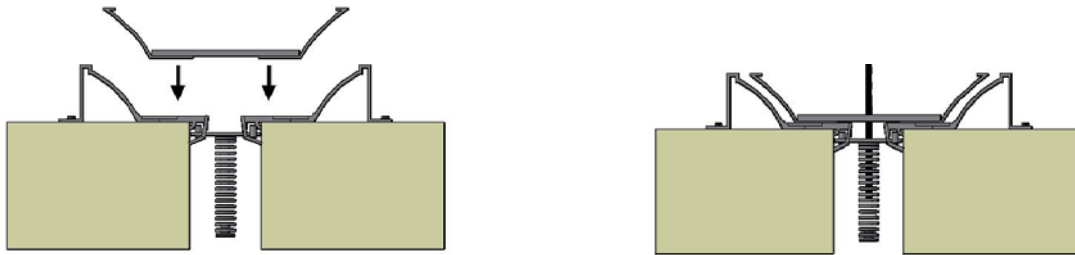
Using the pan cover's pre-drilled bolt holes to determine spacing, tape each pin-bar to the installed base members using a minimal amount of gray tape. Ensure that the pin-bar's "pins" are properly aligned in the base member's slide-channel, as illustrated.

**Pin-bars must be installed parallel to one another.**



### **Step 5: Attach Pan Cover to Pin-bars**

Select the section of pan cover being installed and place into position for installation. Using the pin-bar bolts provided, attach the pan cover to each pin-bar. Pin-bars should be tightened by hand. Do not over tighten.



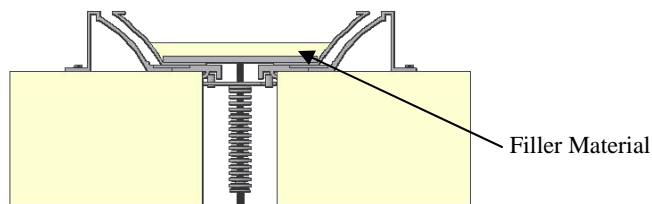
### **Step 6: Install Each Successive Pan Section**

Repeat steps 4 & 5 until all successive pan cover sections are installed.

### **Step 7: Install Floor Filler Material (By others)**

Once all sections of the pan cover are installed, and pin-bars tightened, the system is ready to receive floor filler material. This filler material should be installed per the filler's manufacturer's instructions.

*If concrete or grout are poured into the pan, ensure that all holes and gaps in the pan have been properly dammed.*



### **Step 8: Install Floor Finish Material (By others)**

Install the finished floor material in accordance with the manufacturer's instructions. Once the finished floor material is installed, apply a bead of joint sealant in the gaps along each side of the pan. Ensure the sealant is flush with the finished floor.

