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## **INSTALLATION INSTRUCTIONS FOR EX and EXB SERIES EXPANSION JOINT COVER SYSTEMS**

### **IMPORTANT READ THE FOLLOWING BEFORE INSTALLING**

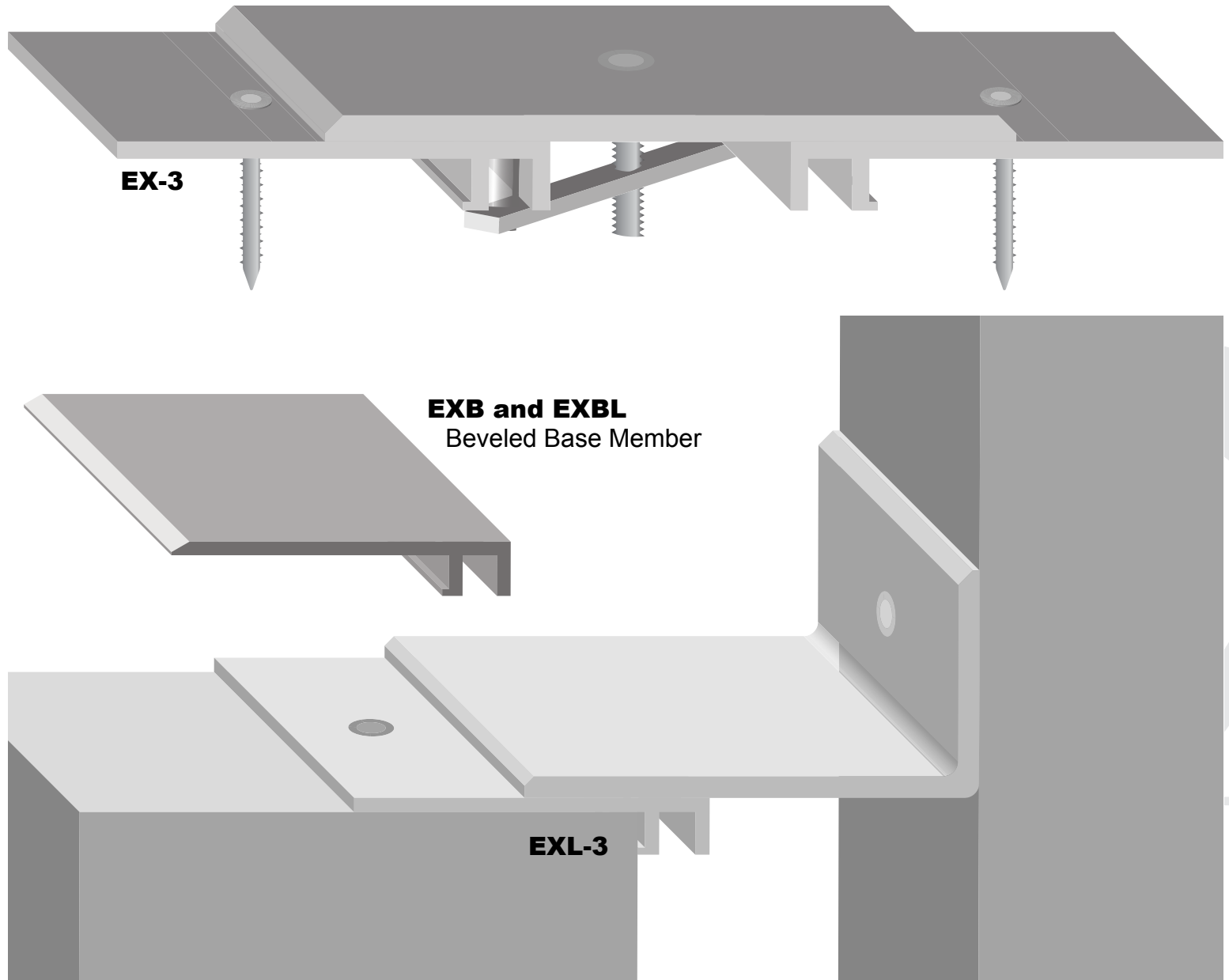
Read the following installation instructions carefully, and be sure you understand them completely before you begin any work. Please note that these installation instructions are for standard installations and are not intended to replace any specific details or shop drawings that differ from those depicted.





## INSTALLATION INSTRUCTIONS FOR EX and EXB SERIES

These installation instructions are for use in the installation of EX and EXB Series expansion joint cover systems (Figures 1 and 2).



**Figure 1—EX and EXB Series Expansion Joint Systems**

### STORAGE

These expansion joint systems are shipped unassembled. Store these products in a fully supported horizontal position and in a clean, dry location.

### CAUTION

For items that are uncured, refer to packaging instructions for MSDS information and storage requirements.

## PROCEDURES

### PRE-INSTALLATION

Review all approved shop drawings for types and locations.

### PARTS

- Base Member
- Base Member Anchors
- Pin Bar
- Pin Bar Bolt
- Center Plate

### TOOLS REQUIRED

This is a list of tools and materials recommended for use in the installation of these expansion joint covers. Balco, Inc. does not provide these tools and materials.

- Drill Bits (Metal)
- Electric Drill/ Hammer Drill
- Marker
- Awls
- Tape Measure
- Level
- Phillips Head Bits
- Tape

### SURFACE PREP

1. Test all concrete in and around the joint by tapping the areas with a hammer. If the concrete sounds hollow, cracks, crumbles, or loosens, the concrete must be removed and repaired with a structural repair mortar.
2. Use concrete saws and diamond grinding disks to correct any deviation within the joint.
3. Access to the anchoring surface of the interface walls must be free and clear of debris. Any obstructions must be accounted for in the installation process.
4. Measure the joint opening and verify that you have the correct size for the joint system (Figure 3).

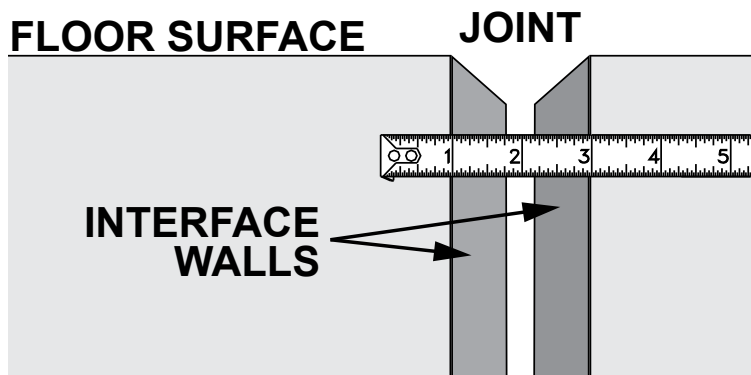


Figure 3—Measuring the Joint Size

### SYSTEM INSTALLATION

#### NOTE

If fire barrier is provided with the system, install it at this time. Refer to the installation instructions for the fire barrier type provided.

#### NOTE

If water barrier is specified, install Balco, Inc. water barrier in accordance with the appropriate water barrier installation instructions.

### BASE MEMBER INSTALLATION

#### Floor to Floor Base Members

1. If not pre-drilled, mark the locations for the anchor holes on the base member. Drill and countersink the anchor holes into the base member.

#### NOTE

Standard anchor spacing is 20" o.c. with an anchor hole a maximum of 3", or  $\frac{1}{2}$  of the centering bar, from each end of the cover plate section.

2. Use the base member as a template and mark the location of the anchor holes on the substrate.

#### CAUTION

Ensure the base assembly is properly aligned, straight, and level.

3. Remove the base member and drill the anchor holes into the substrate at the mark locations.
4. Clean all debris from the joint area.
5. Place the base member back into its installed position and attach it to the substrate.
6. Repeat steps 1 through 5 for the remaining base members.

## CAUTION

**Exterior Only**—Leave a  $\frac{1}{4}$ " space between each base member to allow for the thermal expansion. Caulking should be applied between each base member.

## Floor to Wall Base Members and Cover Plates

1. If not pre-drilled, mark the locations for the anchor holes on the base member and cover plate. Drill and countersink the anchor holes into the base member and cover plate.
- 1a. **For Gypsum or Stud Wall Construction Only**—No pre-drilling of the substrate is needed. Skip to step 6.
2. Using the base member and cover plate as a template, place the base member into the installed position. Then place the cover plate on top of the base member and snug against the wall (see Figure 2).

## CAUTION

Ensure the base member and cover plate are properly aligned, straight, and level.

3. Mark the locations of the anchor holes on the substrate.
4. Remove the base member and cover plate. Drill the anchor holes into the substrate at the marked locations.
5. Clean all debris from the joint area.
6. Place the base member into its installed position and attach it to the substrate. Ensure it is properly aligned, straight, and level.
7. Place the cover plate on top of the base member and snug against the wall. Align the anchor holes to the holes in the substrate, if needed. Attach the cover plate to the substrate.

## CAUTION

Leave a  $\frac{1}{4}$ " space between each base member and cover plate to allow for the thermal expansion. Caulking should be added between each base member.

8. Repeat steps 1 through 7 for the remaining base members and cover plates for the length of the joint.

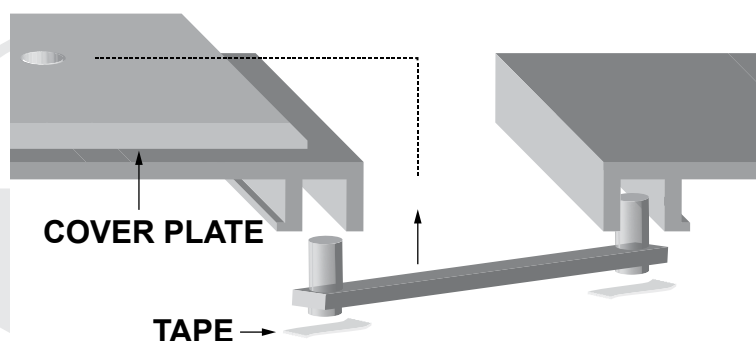
## CENTER PIN BAR INSTALLATION (Floor to Floor Models only)

1. If not pre-drilled, mark the locations for the anchor bolts on all the cover plates. Drill and countersink the anchor holes into all the cover plates.

## NOTE

Standard anchor spacing is 20" o.c. with an anchor hole a minimum of 3", or  $\frac{1}{2}$  of the centering bar, from each end of the cover plate section.

2. Place the cover plate on top of the base member on either side of the joint, mirroring its installed position (Figure 4).

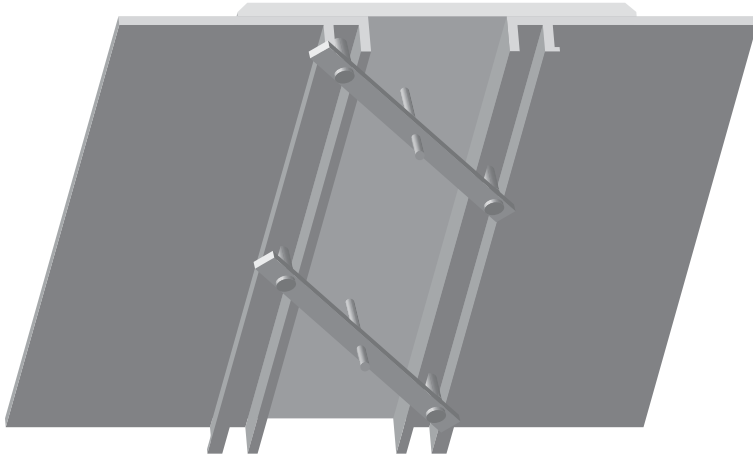


**Figure 4—Bolt and Centering Bar Placement**

3. Place a center pin bar into the bottom channel of the installed base member for each anchor hole of the cover plate (see Figure 4).
4. Align each anchor hole of the center pin bars with an anchor hole of the cover plate.
5. Tap each center pin bar to the base member at its installed location (see Figure 4).

**NOTE**

Center pin bars should be installed at an angle, but parallel with each other (Figure 5).



**Figure 5—Centering Bar Final Placement**

6. Place the cover plate over the joint in its installed position and align it with each center pin bar anchor hole.
7. Insert a pin bar bolt through each hole in the cover plate.
8. Attach the cover plate to the center pin bar by hand tightening the pin bar bolts until the center pin bar engages the base member channels.

**WARNING**

**DO NOT OVER TIGHTEN THE PIN BAR BOLTS.**

9. Repeat steps 2 through 8 for the remaining cover plates for the length of the joint.