

2626 South Sheridan • PO Box 17249 • Wichita, Kansas 67217 Phone: (316) 945-9328 • Fax: (316) 945-0789

# INSTALLATION INSTRUCTIONS FOR BALCO, INC.

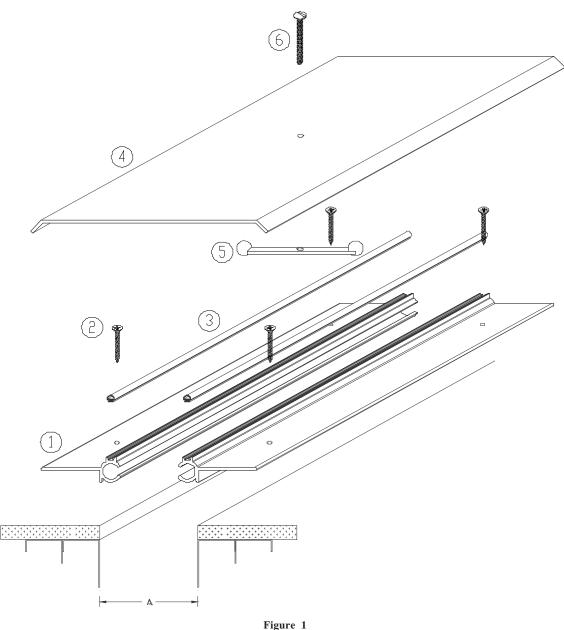
CM SERIES
WALL & CEILING EXPANSION JOINT COVERS

## **INSTALLATION INSTRUCTIONS** FOR BALCO, INC. CM SERIES **WALL & CEILING EXPANSION JOINT COVERS**

The following installation instructions are very important. Read them carefully, and be sure you understand them completely before you begin any work.

### **STORAGE & HANDLING**

The expansion joint covers are shipped unassembled. Store this product in the horizontal position in a clean, dry location. This is a finished product. Store this product in a protected area.



#### **CM SERIES PARTS LIST**

- 1. Base Members
- 2. Base Member Anchors<sup>1</sup>
- 3. Gaskets
- 4. Center Plate
- 5. Centering Bar
- 6, Center Plate Anchors
- Anchors provided may differ from those illustrated herein, depending upon the installation configuration and the substrate.

#### **TOOLS REQUIRED**

The following tools and materials are recommended for use in the installation of the joint cover system. Balco, Inc. does not provide these tools and materials:

- A. Drill Bits for Base Members (Metal)
- B. Drill Bits for Anchors (Wall).
- B. Electric Drill
- C. C-Clamps
- D. 2X4s (Wood, ten feet (10') in length)
- E. Phillips and Slotted Screw Driver Bits

#### **INSTALLATION**

These installation instructions are for use in the installation of CM Series Expansion Joint Covers. After the masonry or stud and gypsum wallboard wall or ceiling are in place, the CM Series or CML Series Expansion Joint Cover may be installed. The system is illustrated in Figure 1. The joint cover system shall be installed as follows:

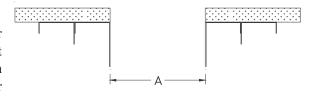
**STEP 1.** Review Balco, Inc. approved shop drawings for types and locations.

STEP 2. Select the base members. If the anchor holes have not been predrilled in the base members at the factory, mark the locations for the anchor holes on the base members (see Figure 3). Standard anchor spacing is 20" O.C. with an anchor at a nominal 3" from each end of the base member. Drill the holes into the base members at the marked locations.

STEP 3. If the V3R gaskets were not installed into the base members at the factory, install the V3R into the base members. Select a base member section and a V3R section, and insert the foot of the V3R into the base member's channel and slide the V3R into the channel (see Figure 4). Ensure that the V3R does not stretch during installation. Repeat this procedure for each base member section.

**STEP 4.** If fire barrier is provided in conjunction with the joint cover system, install the fire barrier in accordance with the applicable fire barrier installation instructions.

**STEP 5.** If water barrier is provided, place the water barrier into its installed position in the joint. Refer to the installation instructions entitled, "INSTALLATION INSTRUCTIONS FOR BALCO, INC. 0.045 EPDM WATER BARRIER SYSTEMS"



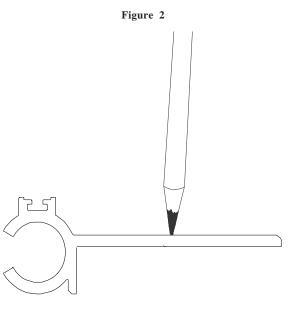
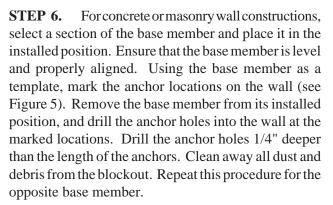


Figure 3

for the recommended procedures for the installation of the water barrier.

NOTE: THE OPTIONAL WATER BARRIER MAY BE EITHER EPDM OR HYPALON. THE BASIC INSTALLATION OF THE WATER BARRIER IS THE SAME REGARDLESS OF WHICH OF THESE MATERIALS IS PROVIDED BY THE FACTORY.
RECOMMENDED SPLICING METHODS VARY DEPENDING UPON WHICH MATERIAL IS PROVIDED.



NOTE: OBSERVE NORMAL SAFETY PRECAUTIONS WHEN DRILLING TO AVOID ALL UTILITIES AND RE-BAR.

**STEP 7.** Select a base member, and place it into its installed position. Ensure that the base member is level and properly aligned and that the anchor holes in the base member are properly aligned with any anchor holes in the fire barrier retainers, or flanges, and the substrate. Using the anchors provided by the factory, attach the base member to the wall. Repeat this procedure for the opposite base member (see Figure 6).

**STEP 8.** Select a section of the cover plate and the centering bars and centering bar bolts required for the cover plate. A centering bar must be selected for each anchor hole in the cover plate.

NOTE: CENTERING BAR INSTALLATION MUST BE UNIFORM. WHEN CORRECTLY INSTALLED, CENTERING BARS WILL SPAN

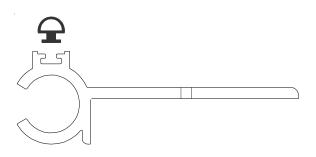


Figure 4

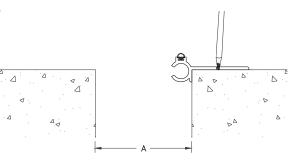


Figure 5

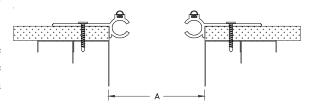


Figure 6

THE JOINT DIAGONALLY, AND ALL CENTERING BARS WILL BE PARALLEL TO ONE ANOTHER.

**STEP 9.** Using the notch provided in the center of each section of the installed base member, insert one of the centering bar's spheres into the base member's track on one side of the joint.

**STEP 10.** Insert the other center bar sphere into the opposite base member's track (see Figure 7).

**STEP 11.** Repeat Step 9 and Step 10 until all the centering bars have been installed in one section of the joint cover system.

**STEP 12.** Place the cover plate next to the installed base members so that it is aligned with its installed position. Slide the centering bars along the base members so that the anchor hole in each centering bar aligns with the corresponding anchor hole in the cover plate.

**STEP 13.** Place the cover plate into its installed position spanning the joint. Insert one of the bolts through each of the anchor holes in the cover plate (see Figure 8). Ensure that the cover plate is level and properly aligned.

**STEP 14.** Attach the cover plate to the centering bars by tightening the centering bar bolts (see Figure 9). Tighten the centering bar bolts by hand. Do Not Overtighten the Centering Bar Bolts.

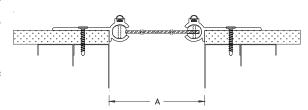


Figure 7

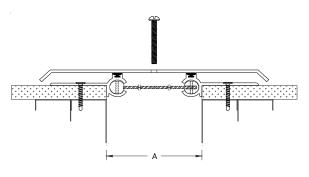


Figure 8

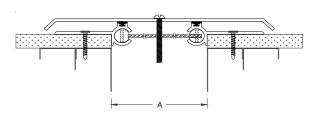


Figure 9

#### WARRANTY POLICY

Balco, Inc. warrants to its purchasers that all products sold by it will be free from manufacturing and material defects. Any defective product will be replaced or repaired free of any charge, provided a claim is brought to our attention, in writing, within the established warranty period following the date of shipment by us and provided our examination shows the product has failed under the terms of this warranty. The established warranty period for exterior joint cover systems (Duraflex<sup>TM</sup>) is five (5) years provided the systems are installed by a Balco Certified Installer. The established warranty period for grids and mats is two (2) years. The established warranty period for all other Balco, Inc. products is one (1) year. Balco, Inc. will not be responsible for installation costs involved in such repair or replacement. Balco, Inc. shall have no obligation under this warranty if owner subjects materials to improper conditions (refer to Balco's installation instructions) This is in lieu of all other warranties, expressed or implied, and is the sole warranty extended by Balco, Inc. Our liability under this warranty is limited to repair or replacement and does not include any responsibility for consequential or other damage of any nature. It is further agreed and understood that the price stated for the seller's products is consideration for the limitation of seller's liability hereunder.

**REGISTERED TRADEMARKS:** 

"VINYLINES" "SAF-T-GLO"

"METAFLEX" "SAF-TEN BEVEL"

"SENTRY" "DURAFLEX"

"ILLUMI-TREAD"

**BALCO, INC. PATENT NUMBERS:** 

5,357,727; 5,782,044; 5,829,216;

5,832,678; 6,014,848; 6,115,980;

6,581,347; 6,942,419; 6,955,017;

6,962,026; 7,104,717; 7,856,781

**SAF-T-GLO** patent pending