

BALCO INC

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

***INSTALLATION INSTRUCTIONS
FOR BALCO, INC.***

CML SERIES

WALL & CEILING EXPANSION JOINT COVERS

INSTALLATION INSTRUCTIONS FOR BALCO, INC. CML 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.

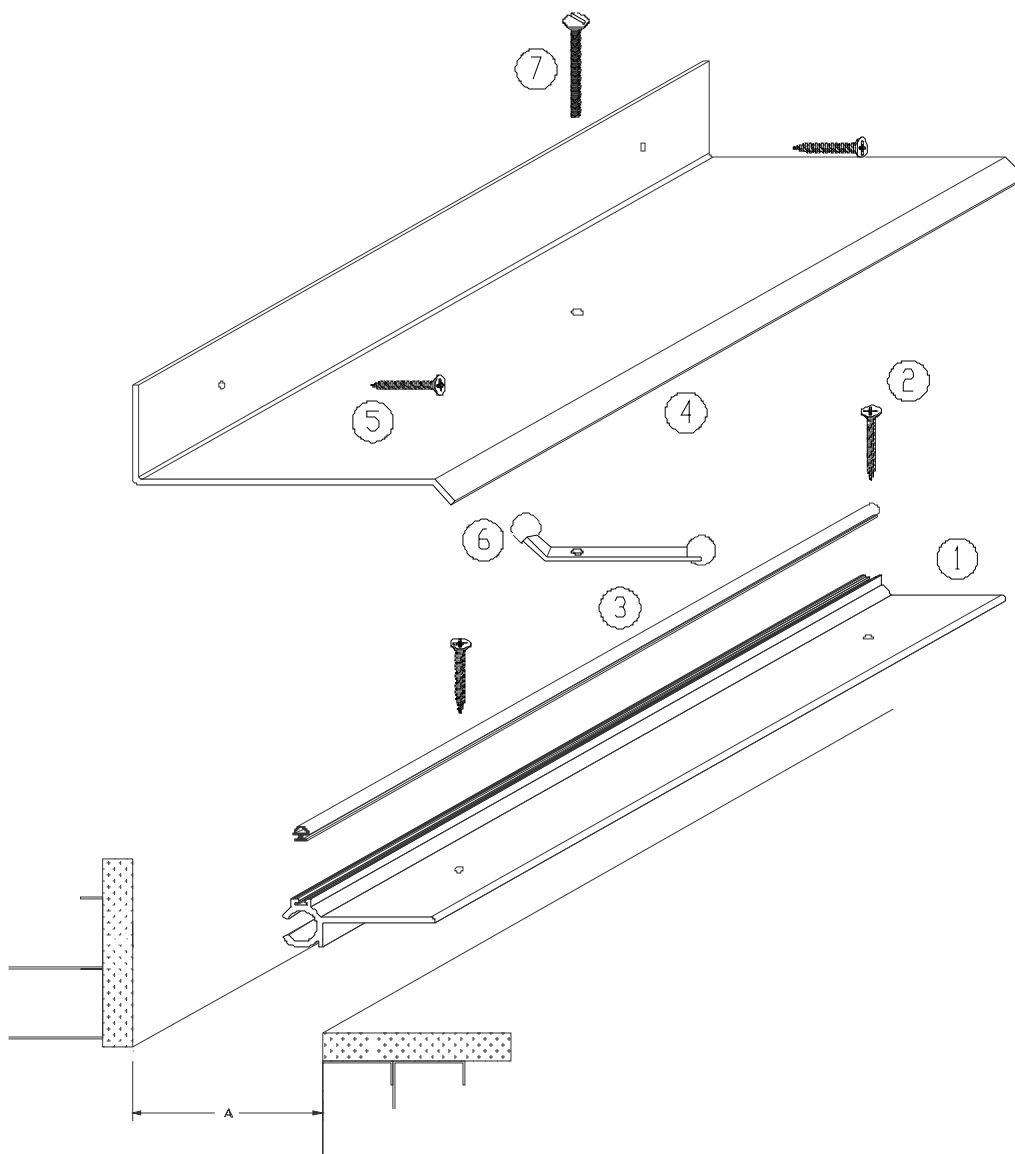


Figure 1

CML SERIES PARTS LIST

1. Base Member
2. Base Member Anchors¹
3. Elastomeric Gasket
4. Cover Plate
5. Cover Plate Anchors
6. Centering Bar²
7. Centering Bar Bolts

¹ Anchors provided may differ from those listed herein, depending upon the installation configuration and the substrate.

² Centering Bars are provided for joint systems for joint 6" in width or greater (static joint width).

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).
- C. Electric Drill
- D. Markers
- E. Level
- E. C-Clamps
- F. 2X4s (Wood, ten feet (10') in length)
- G. Phillips and Slotted Screw Driver Bits

INSTALLATION

These installation instructions are for use in the installation of the CML Series Expansion Joint Covers. After the masonry or stud and gypsum wallboard wall or ceiling are in place, the 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 2). 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 3). Ensure that the V3R does not stretch during installation. Repeat this procedure for each section of the base member.

STEP 4. Select the corner wall cover plates. If the anchor holes have not been predrilled in the corner wall cover plates at the factory, mark the locations for the anchor holes on the corner wall plates (see Figure 4). Standard anchor spacing is 20" O.C. Drill the holes into the corner wall cover plates at the marked locations.

STEP 5. If fire barrier is to be installed in conjunction with the joint cover system, install the fire barrier at this

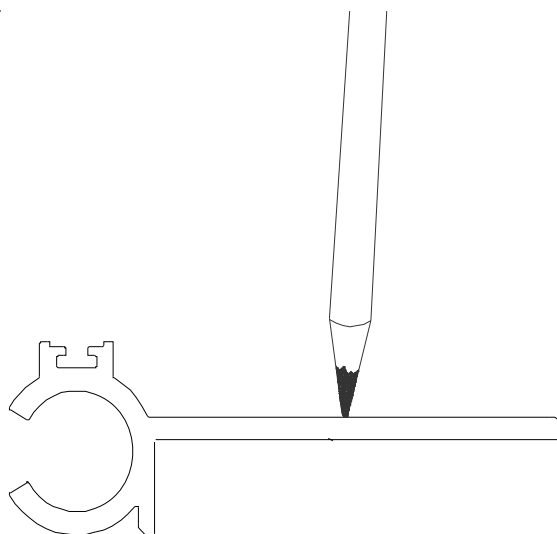


Figure 2

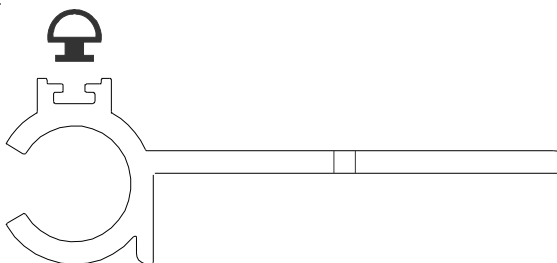


Figure 3

time. Use the installation instructions appropriate for the fire barrier system provided.

STEP 6. If water barrier is provided, install it at this time. 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" 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.

STEP 6. For concrete or masonry wall constructions, select a section of the base member and place it in the installed position. Ensure that the base member is level and properly aligned. Using the base member as a template, mark the anchor locations on the wall (see Figure 5). Remove the base member from its installed position, and drill the anchor holes into the wall at the marked locations. Drill the anchor holes 1/4" deeper than the length of the anchors. Clean away all dust and debris from the blockout.

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

STEP 7. Select the corner wall cover plate and place it into its installed position. Ensure that the cover plate is level, properly aligned and at the proper elevation. Using the cover plate as a template, mark the anchor locations on the wall (see Figure 6). Remove the cover plate from its installed position, and drill the anchor holes into the wall at the marked locations. Drill the anchor holes 1/4" deeper than the length of the anchors. Clean away all dust and debris from the blockout.

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



Figure 4

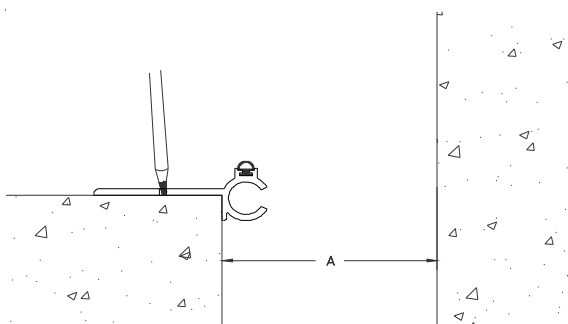


Figure 5

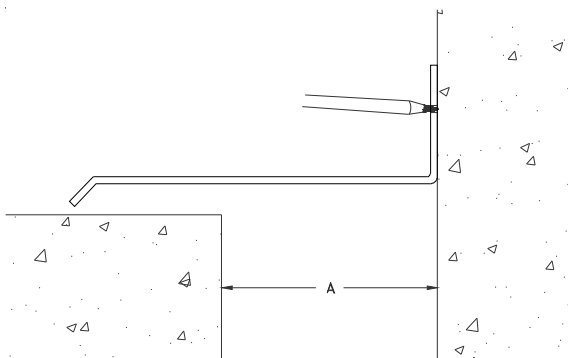


Figure 6

STEP 8. 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 (see Figure 7).

STEP 9. Select a section of the cover plate, and select the centering bars, if provided (used for systems for 6" and wider joints), required for the cover plate. A centering bar must be selected for each centering bar anchor hole in the cover plate.

STEP 10. Select a centering bar bolt for each selected centering bar.

NOTE: CENTERING BARS ARE EMPLOYED IN SYSTEMS FOR 6" JOINTS AND WIDER. CENTERING BAR INSTALLATION MUST BE UNIFORM. WHEN CORRECTLY INSTALLED, CENTERING BARS WILL BE PARALLEL TO ONE ANOTHER.

STEP 11. Using the notch provided in the center of each section of the installed base member, insert the centering bar's sphere into the base member's track (see Figure 8).

STEP 12. Place the bent cover plate next to the installed base members so that it is aligned with its installed position. Slide the centering bars along the base member 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 against the intersecting wall with its free end resting on the base member. Ensure that the cover plate is level, straight, and properly aligned. Ensure that the cover plate is properly aligned with the centering bars. Attach the cover plate to the intersecting wall using the fasteners provided by the factory (see Figure 9).

STEP 14. Insert one of the bolts through each of the anchor holes in the cover plate (see Figure 10). Ensure that the cover plate is level and properly aligned.

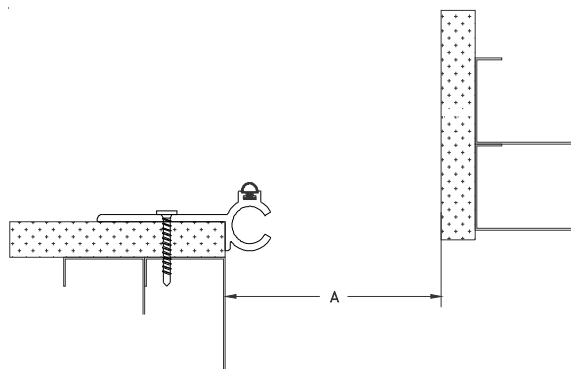


Figure 7

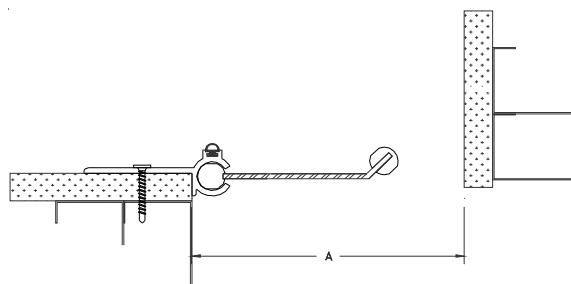


Figure 8

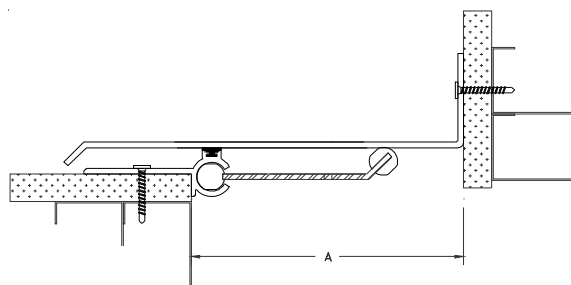


Figure 9

STEP 15. Attach the cover plate to the centering bars by tightening the centering bar bolts (see Figure 11). Tighten the centering bar bolts by hand. Do Not Overtighten the Centering Bar Bolts.

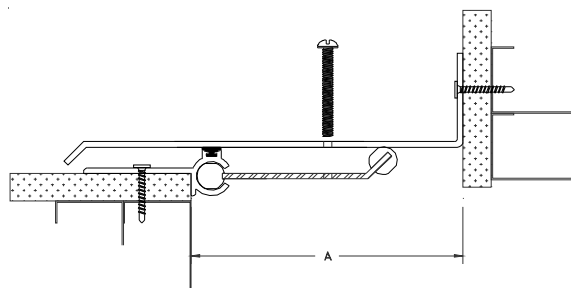


Figure 10

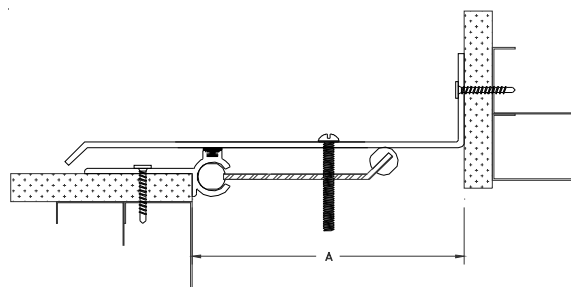


Figure 11

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™) 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