



BALCO INC

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***INSTALLATION INSTRUCTIONS
FOR
TYPE SLA-1
EXPANSION JOINT COVERS***



INSTALLATION INSTRUCTIONS FOR BALCO, INC. SLA-1 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.

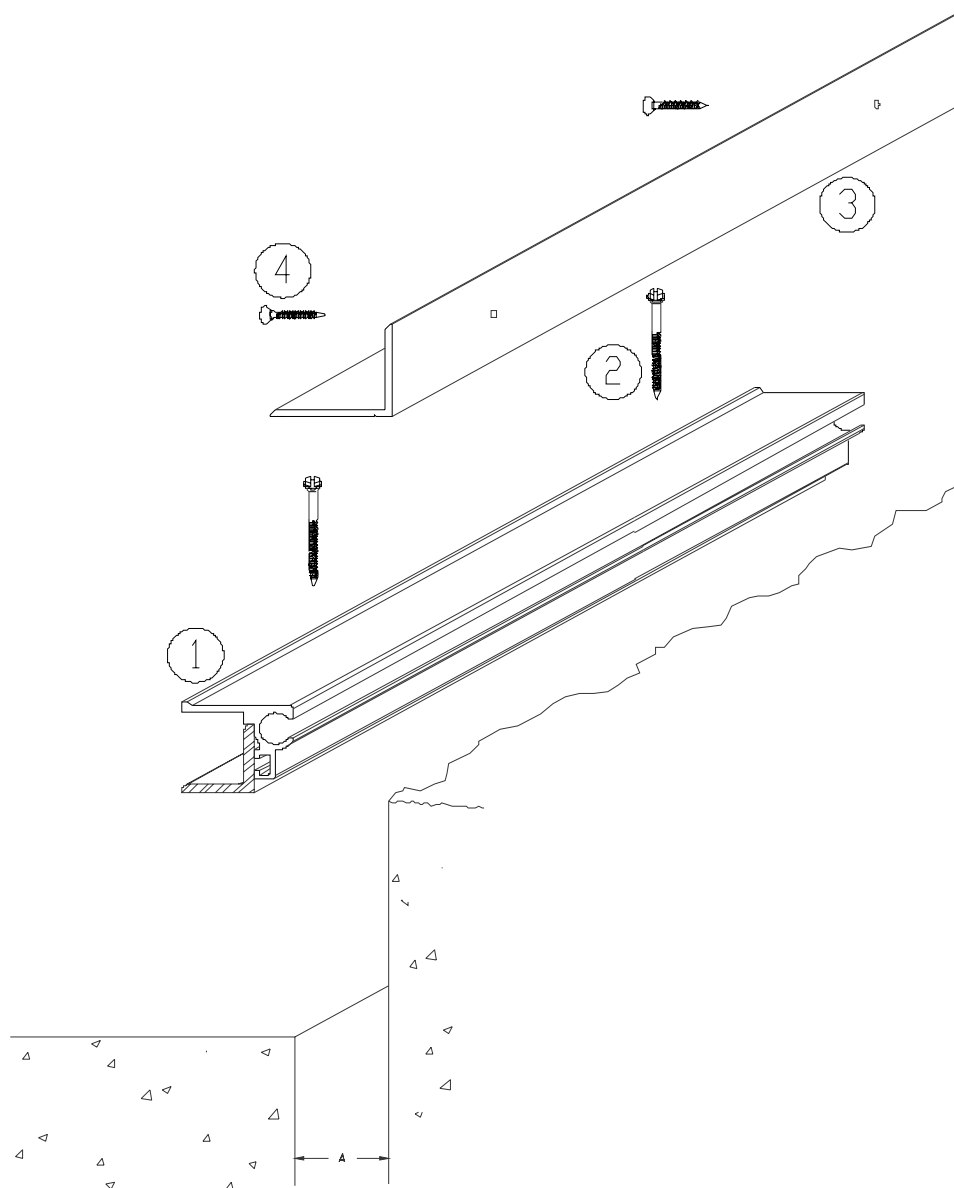


Figure 1

Parts:

1. Base Member Assembly
2. Base Member Assembly Anchors
3. Centering Bars
4. Center Plate
5. Centering Bar Bolts

Tools Required:

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

- A. Drill Bit for Concrete
- B. Drill Bit for Metal
- C. Electric Drill
- D. Marking Pens
- E. Tape Measure
- F. Sockets
- G. Phillips, Slotted and Hex Screw Driver Bits
- H. Grout
- I. Clean Rags

INSTALLATION

These installation instructions are for use in the installation of expansion joint cover types SLA-1. The joint cover 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.

NOTE: BASE MEMBER EXTRUSIONS ARE ATTACHED TO CONTINUOUS STEEL ANGLES AT THE FACTORY. ANGLES ARE CARBON STEEL UNLESS STAINLESS STEEL ANGLES ARE SPECIFIED. THE BASE MEMBERS AND THE CONTINUOUS STEEL ANGLES MAKE UP THE BASE MEMBER ASSEMBLY.

STEP 2. Prepare the slab for installation of the Balco, Inc. expansion joint covers. Ensure that the slab is flat, level, and clear of all debris. If blockouts are required, they may be formed at the time of the initial concrete pour or at a later time by removing material from the slab. To ensure a good installation, use level and true blockout materials. Inspect the blockouts to ensure that they are flat, level, and clear of all debris. Prepare and clean the blockouts as needed.

STEP 3. Select a base member assembly. If the anchor holes have not been pre-drilled in the base member assembly at the factory, mark the locations for the anchor holes on the steel angle (see Figure 2). Standard anchor spacing is 20" O.C. with an anchor at a nominal 3" from each end of the base member assembly. If necessary, drill the anchor holes into the

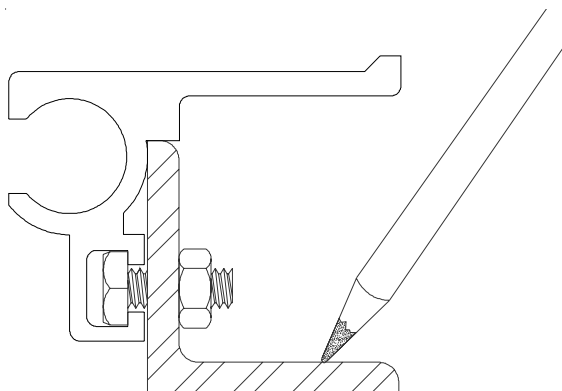


Figure 2

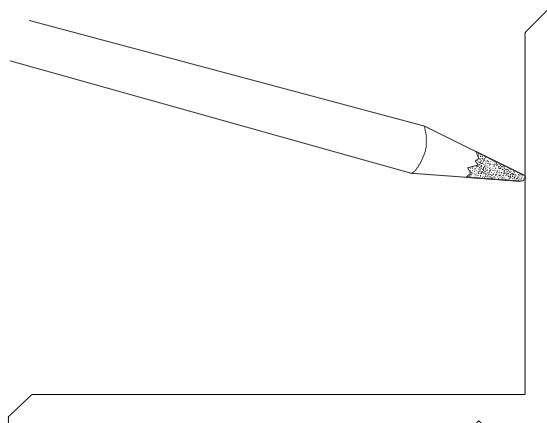


Figure 3

base member assembly at the marked locations. Repeat this procedure for each section of the base member assembly.

STEP 4. If the anchor holes have not been pre-drilled in the wall-mounted center plate at the factory, mark the locations for the anchor holes on the center plate (see Figure 3). Standard anchor spacing is 20" O.C. with an anchor at a nominal 3" from each end of the base member assembly. If necessary, drill the holes into the wall-mounted center plate at the marked locations. The wall-mounted center plate anchor holes are countersunk. Repeat this procedure for each section of the wall-mounted center plate.

STEP 5. If fire barrier is specified, install it at this time. Refer to the installation instructions appropriate for the type of fire barrier provided for the recommended procedures to use in the installation of the fire barrier.

STEP 6. If water barrier is specified, install it at this time. Refer to the installation instructions entitled, "INSTALLATION INSTRUCTIONS FOR BALCO, INC. .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 7. Select a base member assembly, and place it into the blockout in the installed position. Ensure that the base member assembly is level, flush with the finished floor, and plumb with the edge of the joint. Using the base member assembly as a template, mark the locations for the anchors on the concrete (see Figure 4).

STEP 8. Remove the base member assembly from its position, and drill the anchor holes into the concrete 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.

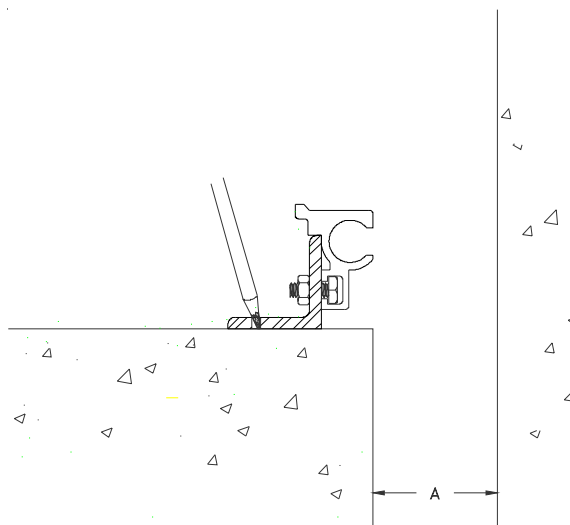


Figure 4

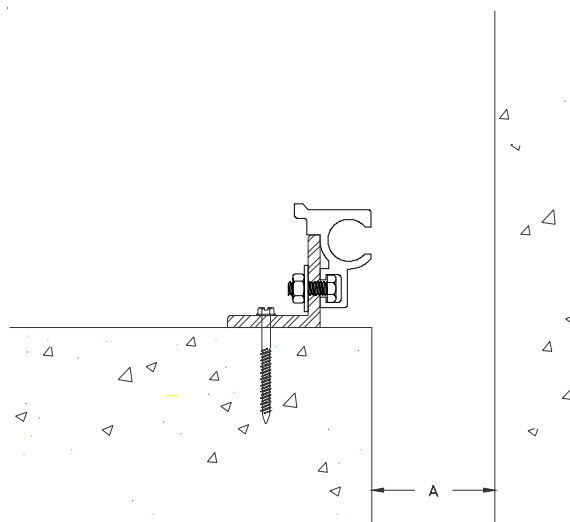


Figure 5

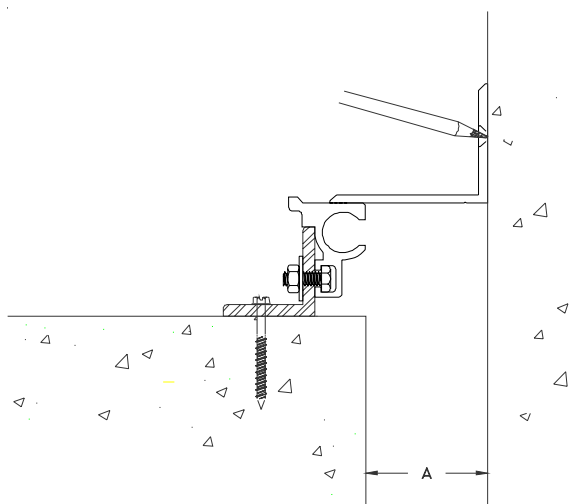


Figure 6

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

STEP 9. Select base member assembly and the base member assembly anchors. Place the base member assemblies back into position in the blockout. Shim the base member assemblies as necessary to properly align them with the finished floor. Ensure that the base member assemblies are level, plumb, properly aligned, and flush with the finished floor. Using the base member assembly fasteners, attach the base member assembly to the concrete, see Figure 5. Repeat this procedure for each subsequent section of the base member assembly.

STEP 10. Select a section of the wall-mounted center plate, and place it into its installed position against the wall and spanning the joint. Ensure that the wall-mounted center plate is properly aligned, at the proper elevation and level. Using the plate as a template, mark the locations for the anchor holes on the wall, see Figure 6.

STEP 11. Remove the wall-mounted center plate from its installed position, and drill the anchor holes into the concrete 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 installation area.

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

STEP 12. Select the wall-mounted center plate and the anchors provided by the factory. Place the wall-mounted center plate into its installed position over the joint, see Figure 7. Ensure that the center plate is properly aligned, at the proper elevation and level. Using the selected anchors, attach the center plate to the wall.

STEP 13. Pour the topping slab or install the pavers in accordance with the manufacturer's instructions and good industry practice (see Figure 8).

STEP 14. Grout continuously between the base member assemblies and the pavers (see Figure 9).

STEP 15. Remove any excess grout from the exposed surfaces of the expansion joint cover system before the grout cures.

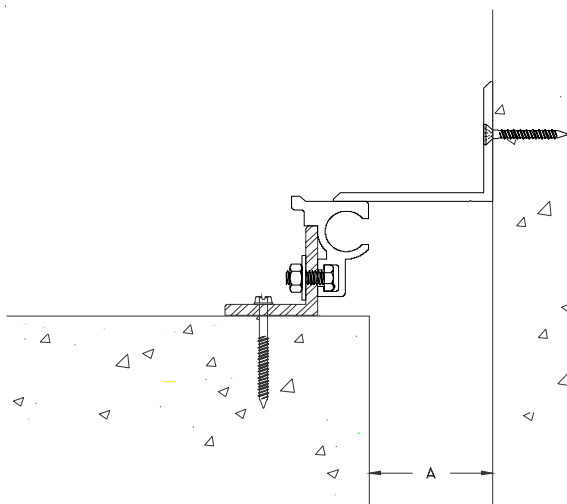


Figure 7

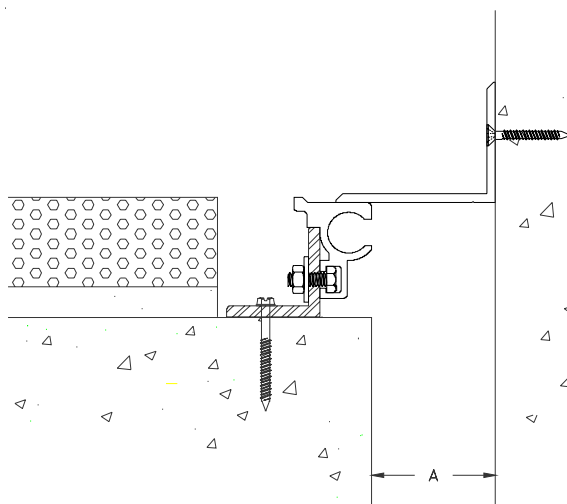


Figure 8

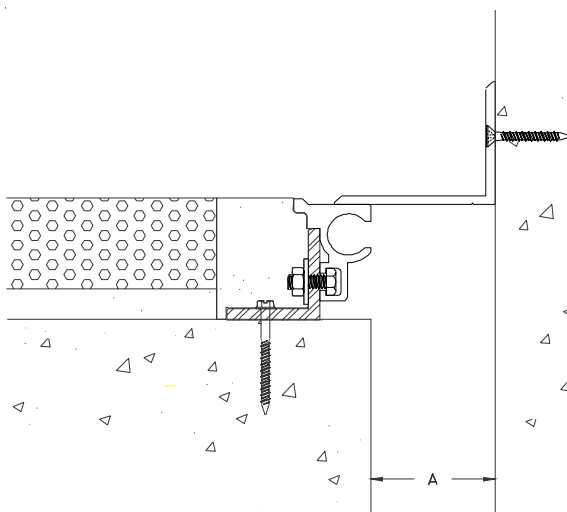


Figure 9

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 systems (Duraflex™) is five 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; 5,852,902; 6,014,848;
6,115,980; 6,581,347; 6,942,419;
6,955,017; 6,962,026; 7,104,717;
Patents Pending