

***BALCO INC***

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

***INSTALLATION INSTRUCTIONS  
FOR 9500 SERIES  
TYPES 95GFT & 95GFVT  
EXPANSION JOINT COVERS***

# INSTALLATION INSTRUCTIONS FOR BALCO, INC. 95GFVTB FLOOR 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.

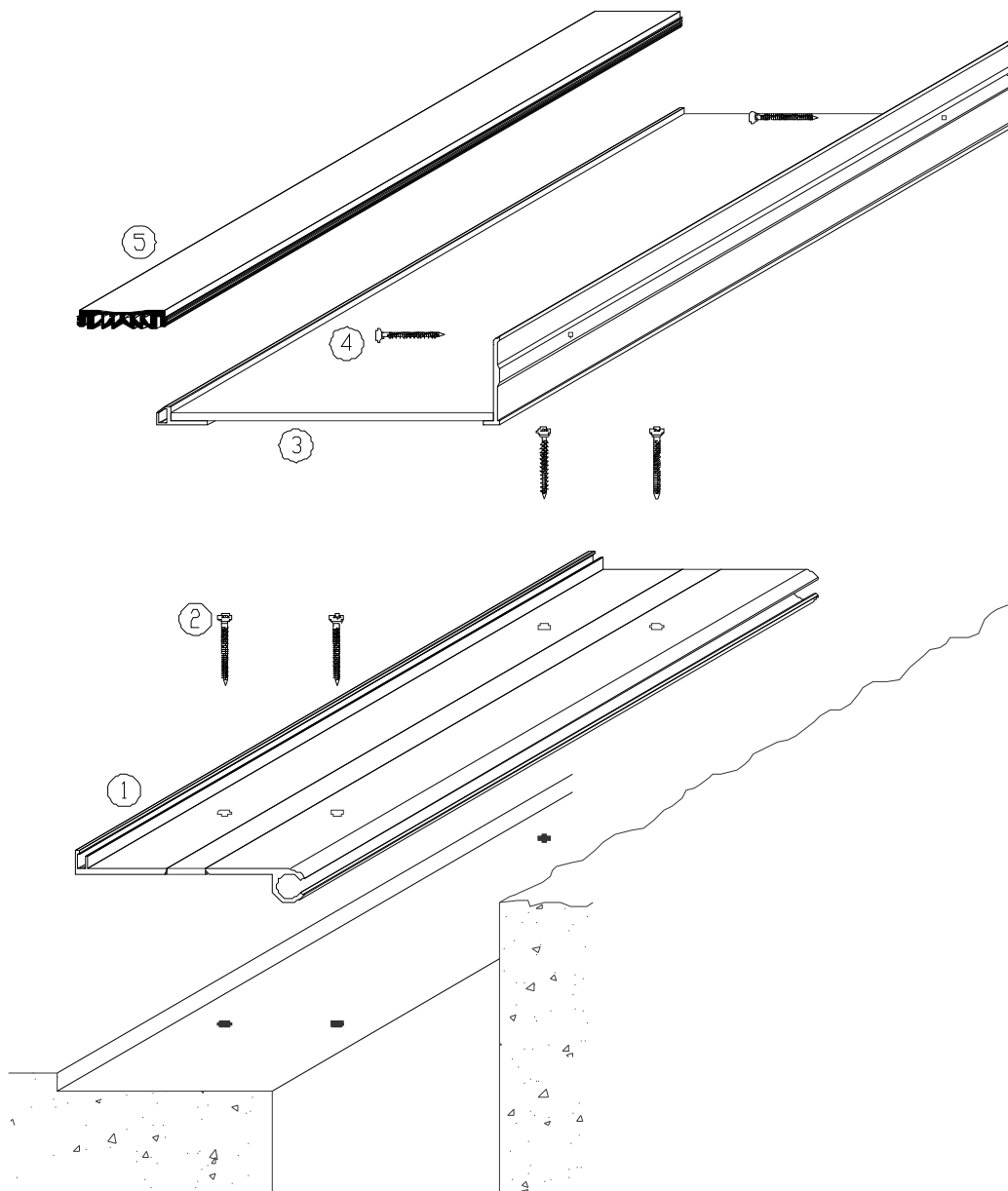


Figure 1

## 95GFVTB- PARTS LIST

1. Base Member
2. Base Member Anchors
3. Cover Plate
4. Cover Plate Anchors
5. Elastomeric Filler

## TOOLS REQUIRED

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

- A. Drill Bits for Metal
- B. Drill Bits for Concrete
- B. Electric Drill
- C. Levels
- D. Tape Measure
- E. Markers
- F. Phillips Screwdrivers
- G. Rubber Mallet
- H. Wooden block
- I. Grout

## INSTALLATION

These installation instructions are for use in the installation of expansion joint cover types 95GFVTB Series (see Figure 1). The joint cover system shall be installed as follows:

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

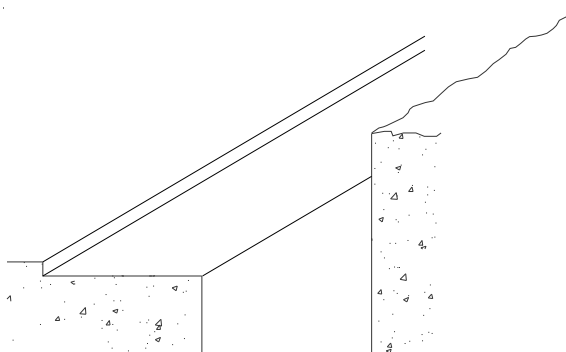


Figure 2

**STEP 2.** Provide the blockout for Balco, Inc. expansion joint covers in accordance with the approved shop drawings, see Figure 2. Blockouts 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 blockout to see that it is flat, level, sound, and clear of all debris. Prepare and clean the blockout as needed.

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

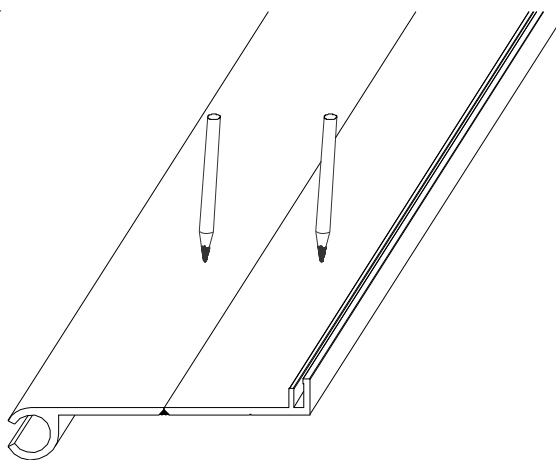


Figure 3

**STEP 4.** Drill the holes into the base members at the marked locations (see Figure 4).

**STEP 5.** Select a section of the cover plate. If the anchor holes have not been predrilled in the cover plate at the factory, mark the locations for the anchor holes on the selected cover plate (see Figure 5). Standard anchor spacing is 20" O.C. with an anchor at a nominal 3" from each end of the base member. Repeat this procedure for each base member section.

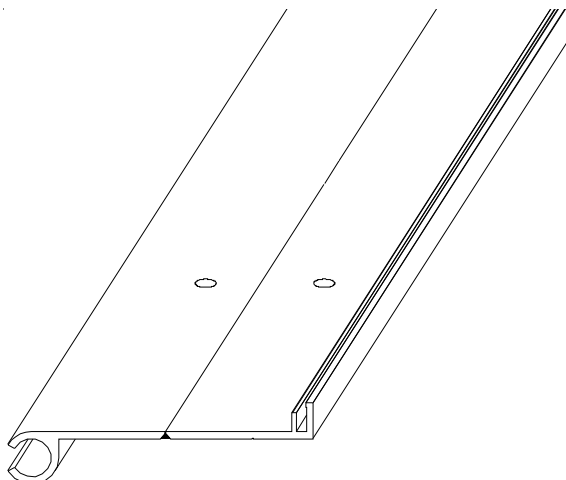


Figure 4

**STEP 6.** Drill the holes into the cover plates at the marked locations (see Figure 6).

**STEP 7.** 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.

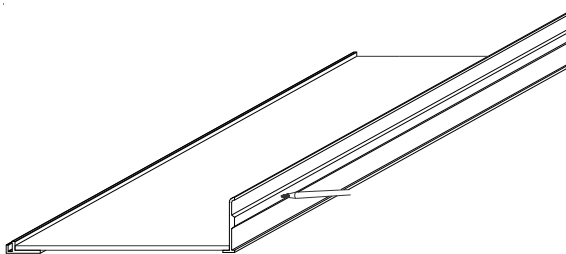


Figure 5

**STEP 8.** 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 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.

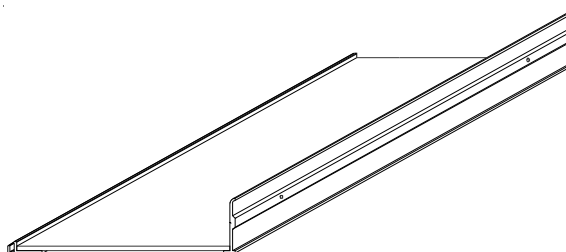


Figure 6

**STEP 9.** Select a base member, and place it into the blockout in the installed position in the blockout. Ensure that the base member is level, flush with the finished floor, and plumb with the edge of the joint. Using the base member as a template, mark the locations for the anchors on the concrete (see Figure 7).

NOTE: ENSURE THAT THE JOINT COVER BASE MEMBERS REST FIRMLY AND COMPLETELY ON THE SUBSTRATE SURFACE. ENSURE THAT THE COVER SYSTEM IS LEVEL WITH THE FINISHED FLOOR AND THAT THE SYSTEM IS LEVEL ALONG ITS LENGTH. SHIM AS NEEDED TO LEVEL THE SYSTEM.

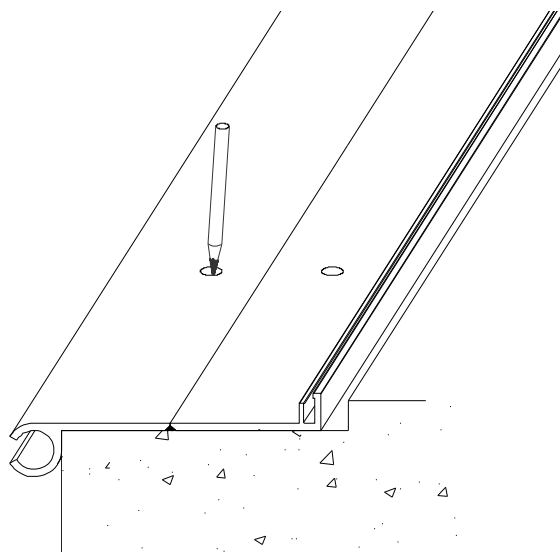


Figure 7

**STEP 10.** Remove the base member from its position, and drill the anchor holes into the concrete at the marked locations (see Figure 8). Drill the anchor holes 1/4" deeper than the length of the anchors. Clean away all dust and debris from the blockout.

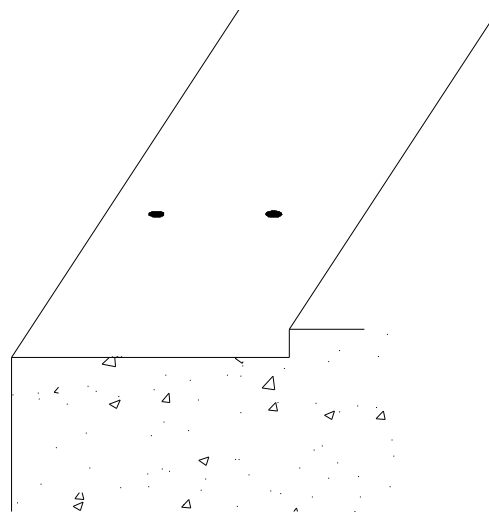


Figure 8

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

**STEP 11.** Place the base member back into its installed position in the blockout. Align the anchor holes in the base member with the anchor holes in the concrete. Ensure that the base member is level, plumb, and properly aligned. Attach the base member to the concrete slab using the fasteners supplied by the factory (see Figure 9). Repeat this procedure for the opposite base member.

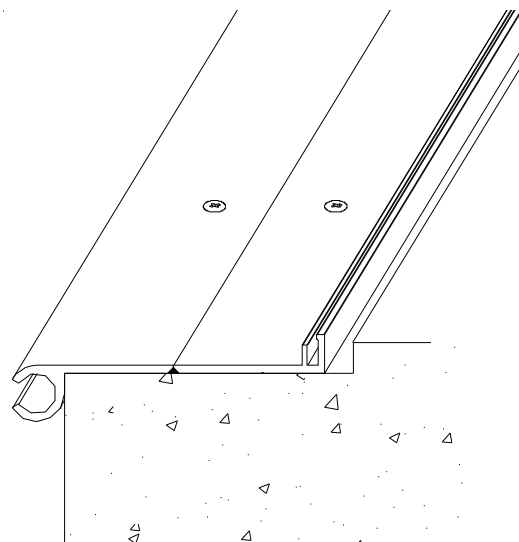


Figure 9

**STEP 11.** Place grout (by others) continuously between the base members and the blockout (see Figure 10) . Install the grout in accordance with the grout manufacturer's written instructions. Remove all excess grout from the exposed surfaces of the aluminum extrusions before the grout sets up.

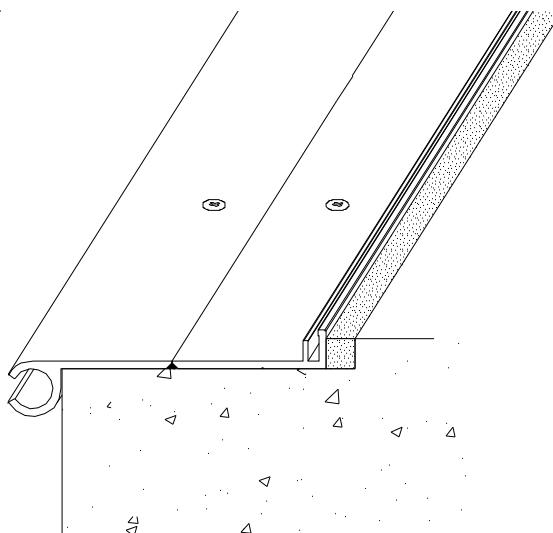


Figure 10

**STEP 12.** Select a cover plate and place it into its installed position against the wall and on the base member. Ensure that the cover plate is level and properly aligned with the base member. Using the cover plate as a template, mark the locations for the cover plate anchors on the substrate, see Figure 11.

**STEP 13.** Remove the cover plate from its installed position and drill the cover plate anchor holes at the marked locations.

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

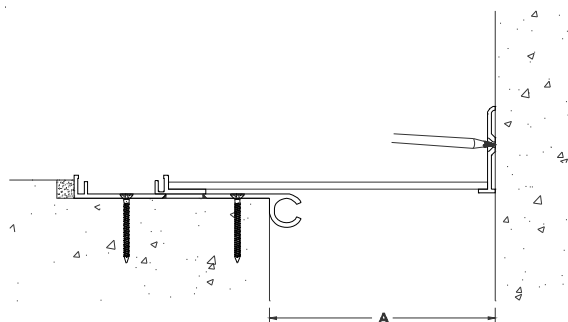


Figure 11

**STEP 14.** Place the cover plate back into its installed position, Ensure that each anchor hole in the cover plate is aligned with a corresponding anchor hole in the wall, and ensure that the cover plate is level and properly aligned with the base member.

**STEP 15.** Using the anchors provided by the factory, attach the cover plate to the wall, see Figure 12.

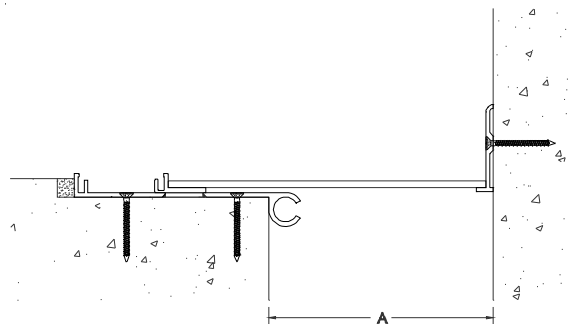


Figure 12

**STEP 16.** Select the elastomeric fillers. Insert each of the elastomeric filler's tabs into the corresponding channel in the base member and in the cover plate (see Figure 13 ). Ensure that each filler's tabs are inserted completely into their corresponding channel.

**STEP 17.** Select the finish floor material, by others, and install the finish floor material into the cover plate recess, see Figure 14. Install the finish floor material in accordance with the finish floor manufacturer's installation instructions.

**STEP 18.** Install the finish floor material onto the floor at this time, see Figure 15. Install finish floor material in accordance with the instructions provided by the finish floor material manufacturer.

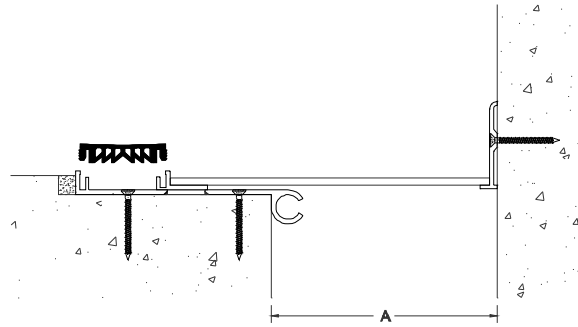


Figure 13

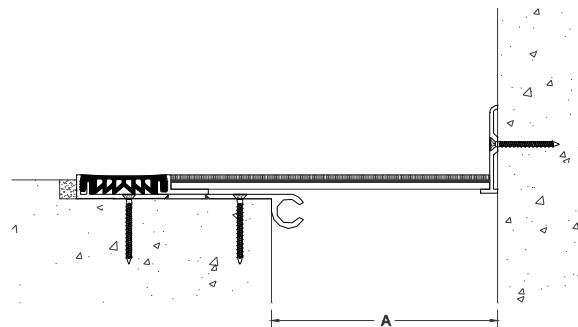


Figure 14

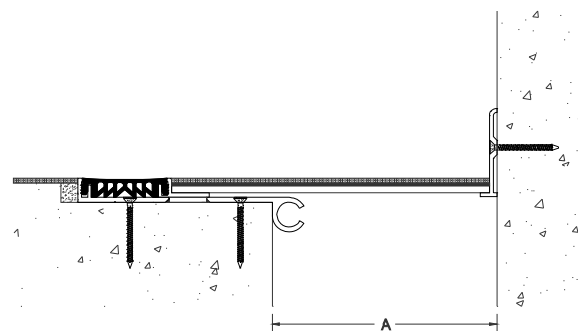


Figure 15

## **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