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*INSTALLATION INSTRUCTIONS
FOR BALCO, INC.
1420 SERIES
GYMNASIUM FLOOR JOINT COVERS*

INSTALLATION INSTRUCTIONS FOR BALCO, INC. TYPE 1420 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.

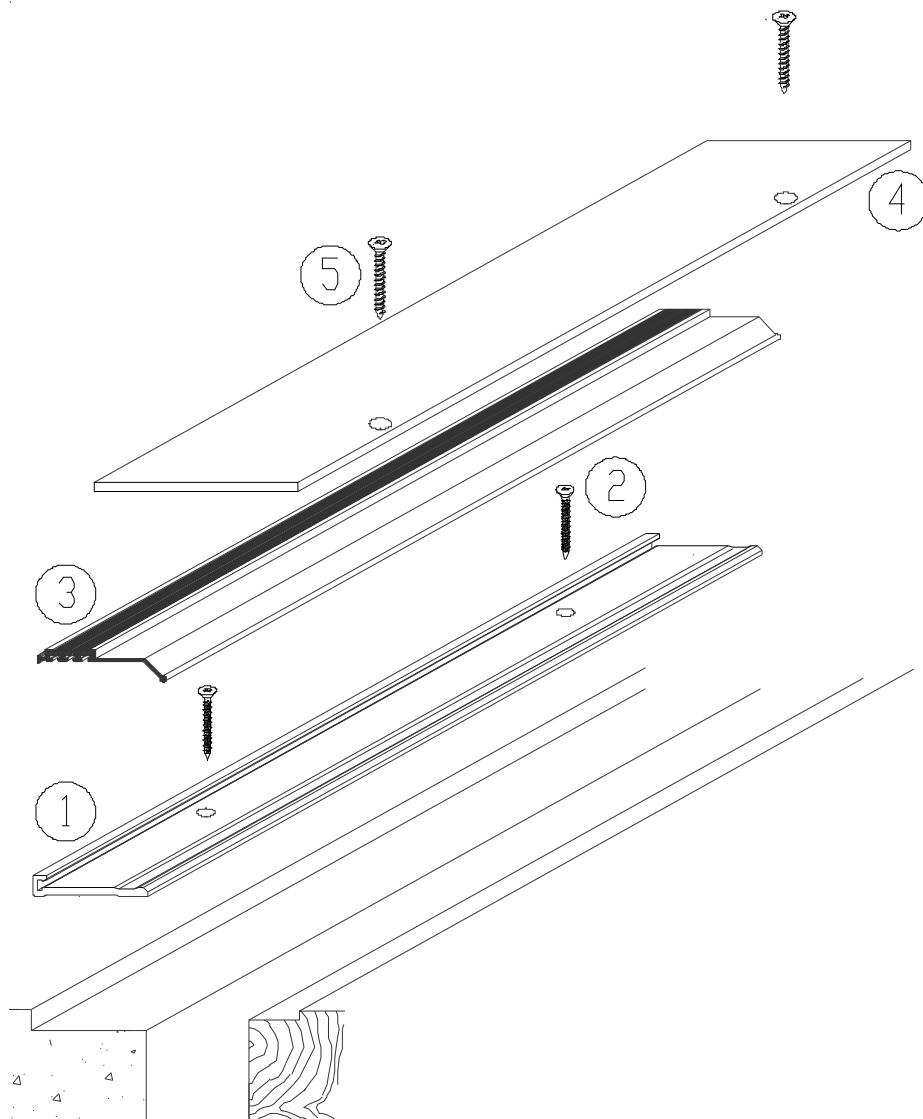


Figure 1

PARTS

1. Base Member Subchannel
2. Fasteners
3. Filler Strip
4. Cover Plate
5. Cover Plate Fasteners

TOOLS REQUIRED

This is a list of tools and materials recommended for use in the installation of these joint systems. Tools and materials in this list are not provided by Balco, Inc.

- A. Drill Bits for Base Members (Metal).
- B. Drill Bits for Concrete (if required)
- C. Electric Drill
- D. Phillips Head Drill Bits
- E. Hand Nut Drivers and Hand Screw Drivers

INSTALLATION

These installation instructions are for use in the installation of expansion joint cover type 1420. 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. Provide blockouts in the pre-existing joint edge for Balco, Inc. Expansion Joint Covers in accordance with the approved shop drawings (see Figure 2). Inspect the blockouts to see that they are flat, level and clear of all debris. Prepare and clean the blockouts as needed. Ensure that the blockouts are of adequate width and depth for proper installation of the joint covers.

STEP 3. Rout the wooden floor along the edge of the joint to the depth and the width indicated on the shop drawings (see Figure 3). Clean away all debris from the joint area.

STEP 4. Select a section of the base member subchannel. If the anchor holes have not been pre-drilled into the base members at the factory, mark the locations for the anchor holes on the base member (see Figure 4). Anchors are spaced 20" o.c. with anchors at a nominal 3" from either end of the base member.

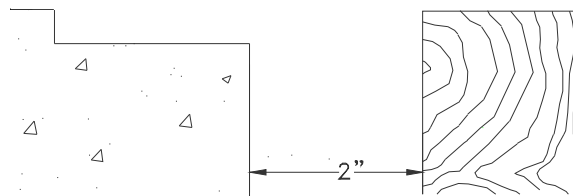


Figure 2

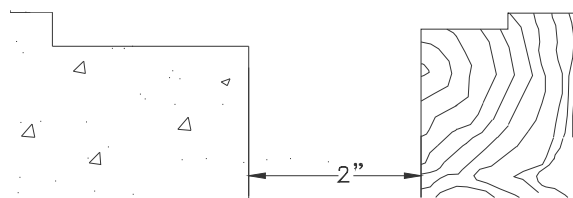


Figure 3

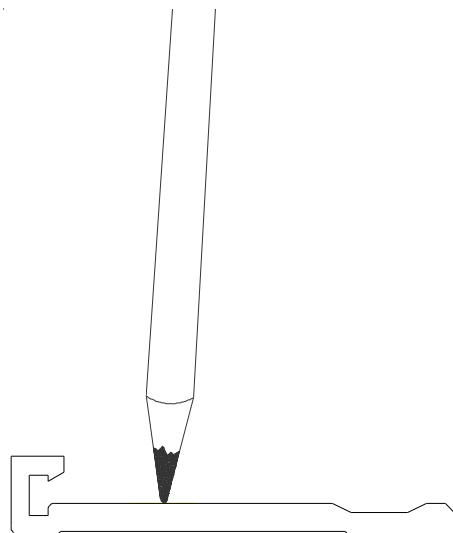


Figure 4

STEP 5. Drill the anchor holes into the base member sections at the marked locations. Repeat Step 4 and Step 5 for each subsequent section of the base member.

STEP 6. Select a section of the base member and place it into its installed position in the blockout. Ensure that the base member is level, plumb with the edge of the joint and properly aligned with the finished floor and with the corresponding cast-in-place base member installed earlier. Using the base member as a template, mark the location for the anchor holes on the concrete (see Figure 5).

STEP 7. Remove the base member from its installed position, and using a 5/32", or other size as appropriate, drill bit for concrete, drill the anchor holes at the marked locations. The anchor holes must be drilled a minimum of 1/4" deeper than the length of the anchors. Clean away all refuse and dust from the blockout.

STEP 8. Select the fasteners for the base member subchannel. Place the base member back into its installed position in the blockout, and attach the base member to the concrete, using the anchors provided by the factory (see Figure 6). Repeat Step 6 through Step 9 for each section of the base member subchannel.

STEP 9. Grout between the base member and the blockout edge using a non-shrink grout (by others; see Figure 7). Clean any excess grout from the exposed surfaces of the base members before it is allowed to set up.

STEP 10. Select a vinyl filler strip, and place the vinyl filler strip into its installed position on the base member. Trim the vinyl filler strip to the correct length for the joint cover system. Slide the filler strip's continuous tab into the base member's receiving channel (see Figure 8) continuously along the base member.

STEP 11. Select the cover plate. Place the cover plate into its installed position over the void. Ensure that the cover plate is level and properly aligned. Using the cover plate as a template, mark the locations for the fasteners on the routed area of the wooden floor (see Figure 9). Remove the cover plate from its installed position. Using the carbide bit provided by the factory, drill pilot holes for the fasteners into the floor at the marked locations. Clean away all refuse from the installation area.

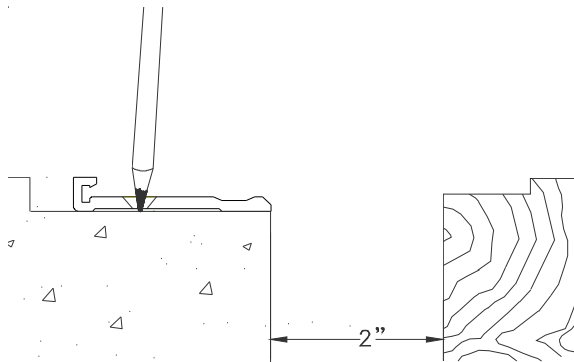


Figure 5

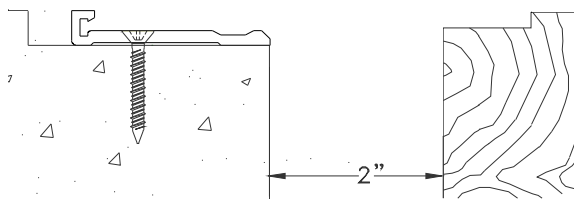


Figure 6

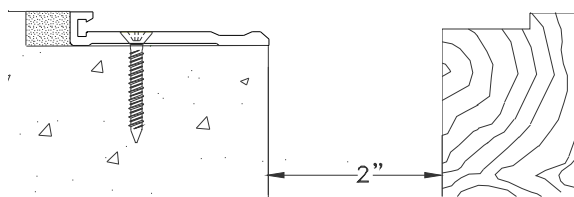


Figure 7

STEP 12. Place the cover plate back into its installed position and attach the cover plate to the base member using the fasteners provided by the factory (see Figure 10). Repeat the procedure in Step 9 through Step 12 for each section of the cover plate.

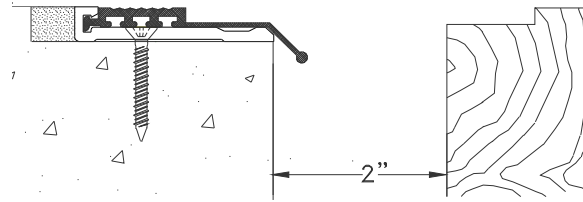


Figure 8

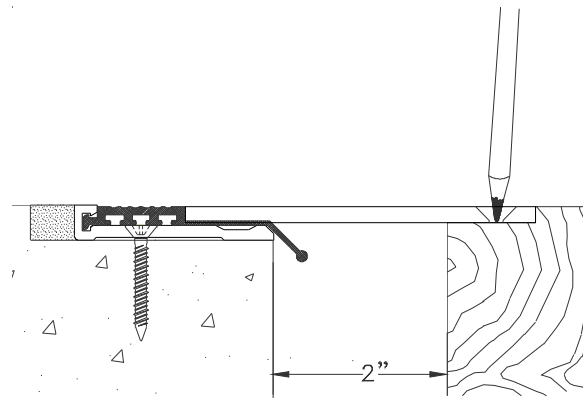


Figure 9

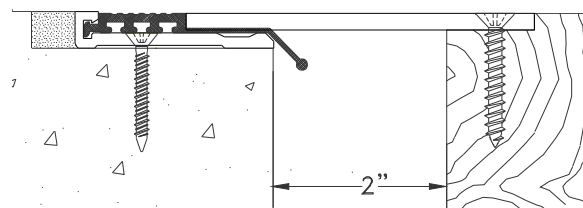


Figure 10

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