

METAFLEX™ 5000 METAMAT™

2 HR RATED FIRE BARRIER TYPE MF2H06F

INSTALLATION INSTRUCTIONS

FOR METAL FLOOR JOINT COVERS

The following installation instructions are very important. Read them carefully, and be sure you understand them completely before you begin any work. Store this product in a clean, dry, protected location.

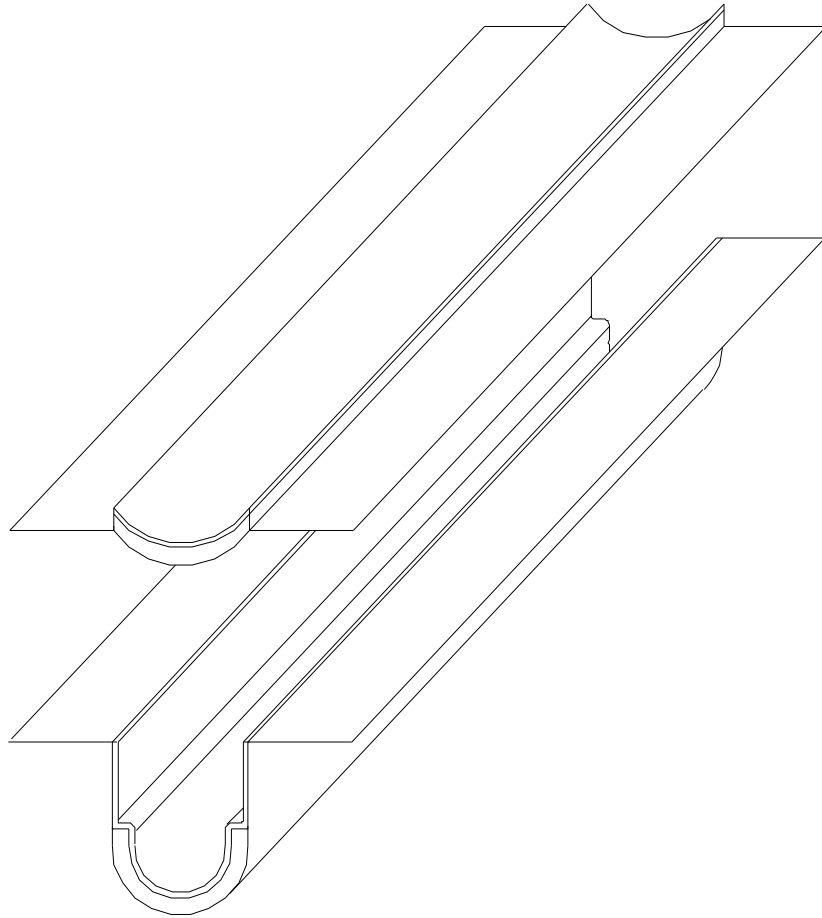


Figure 1

Tools required :

This is a list of tools and materials recommended for use in the installation of MetaMat. These tools and materials are not provided by Balco, Inc.

- A. Electric Drill
- B. Drill Bits (appropriate for substrate)
- C. Phillips, Slotted and Hex Screw Drivers
- D. Tape Measure
- E. Utility Knife
- F. General Purpose Spray Adhesive

Parts:

- 1. MetaMat, Bottom Package
- 2. MetaMat, Top Package

PROCEDURES:

These instructions are applicable to MetaMat 2 hr. fire barrier, model MF2H06F, used in conjunction with metal joint cover systems (aluminum, bronze, stainless steel). The MetaMat is illustrated in Figure 1. Use the appropriate joint cover system installation instructions for installation of the joint cover.

STEP 1. Place the MetaMat bottom layer, fabric side down, into its installed position so that it is draped into the joint, spans the joint, and so that the fabric flanges rest on the surface of the substrate.

STEP 2. Place the MetaMat top layer, foil side down, into its installed position so that it spans the joint and so that its aluminum foil flanges rest on top of the bottom layer's fabric flanges (Figure 2).

NOTE: THE JOINT COVER SYSTEM BASE MEMBERS AND THE FIRE BARRIER DRAPE INTO THE JOINT MAY DIFFER FROM THOSE ILLUSTRATED IN THESE INSTALLATION INSTRUCTIONS.

STEP 3. Select the joint cover system base members. Place the base members into their installed position over the MetaMat fire barrier's flanges. Using the joint cover system base members as a template, mark the locations for the anchor holes on the fire barrier flanges (Figure 3). Anchor spacing is 20" o.c. with anchors a maximum of 3" from each end of each base member.

STEP 4. Remove the base members from their installed position, and drill the anchor holes through the fire barrier flanges and into the substrate at the marked locations. Clean away all dust and debris from the fire barrier and from the installation area.

NOTE: EXCESS METAMAT FOIL FLANGE MATERIAL MAY BE TRIMMED OR FOLDED OVER.

STEP 5. Place the joint cover system base members back into their installed position and attach them to the substrate using the fasteners provided by the factory (Figure 4).

STEP 6. Complete the installation of the joint cover system in accordance with the installation instructions appropriate for the system.

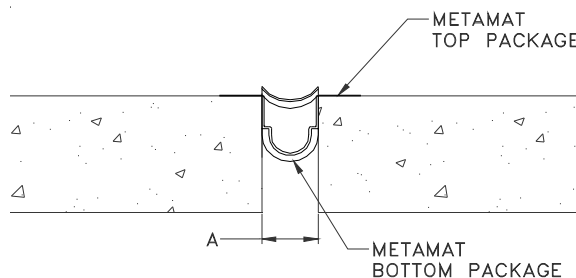


Figure 2

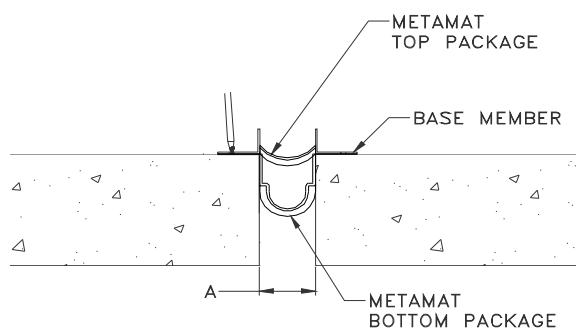


Figure 3

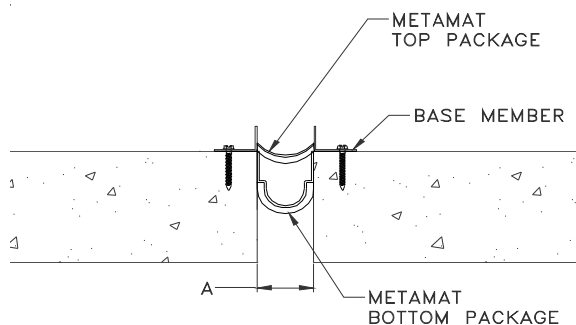


Figure 4

SPLICING:

STEP 1. Select the mating sections of the bottom package of the MetaMat. Overlap each layer (fabric, blanket and intumescent) of the mating sections of the MetaMat fire barrier 6" (Figure 5 and Figure 6).

STEP 2. Using a general purpose spray adhesive (Misty A00309 Webbing Spray Adhesive, 3M Hi-Strength 90 or equivalent spray adhesive), bond the overlap of the mating layers of MetaMat to one another.

STEP 3. Select the mating sections of the top package of the MetaMat. Overlap each layer (foil, blanket and intumescent) of the mating sections of the MetaMat fire barrier 6" (Figure 5 and Figure 6).

STEP 4. Using a general purpose spray adhesive (Misty A00309 Webbing Spray Adhesive, 3M Hi-Strength 90 or equivalent spray adhesive), bond the overlap of the mating layers of MetaMat to one another.

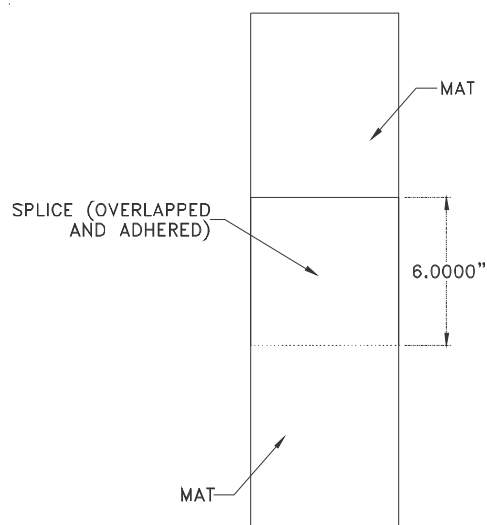


Figure 5

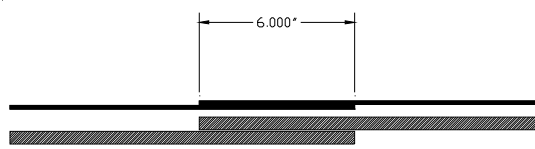


Figure 6

METAFLEX™ 5000 METAMAT™ 2 HR RATED FIRE BARRIER TYPE MFV2H06 INSTALLATION INSTRUCTIONS FOR FLOOR-TO-WALL JOINT COVERS

The following installation instructions are very important. Read them carefully, and be sure you understand them completely before you begin any work. Store this product in a clean, dry, protected location.

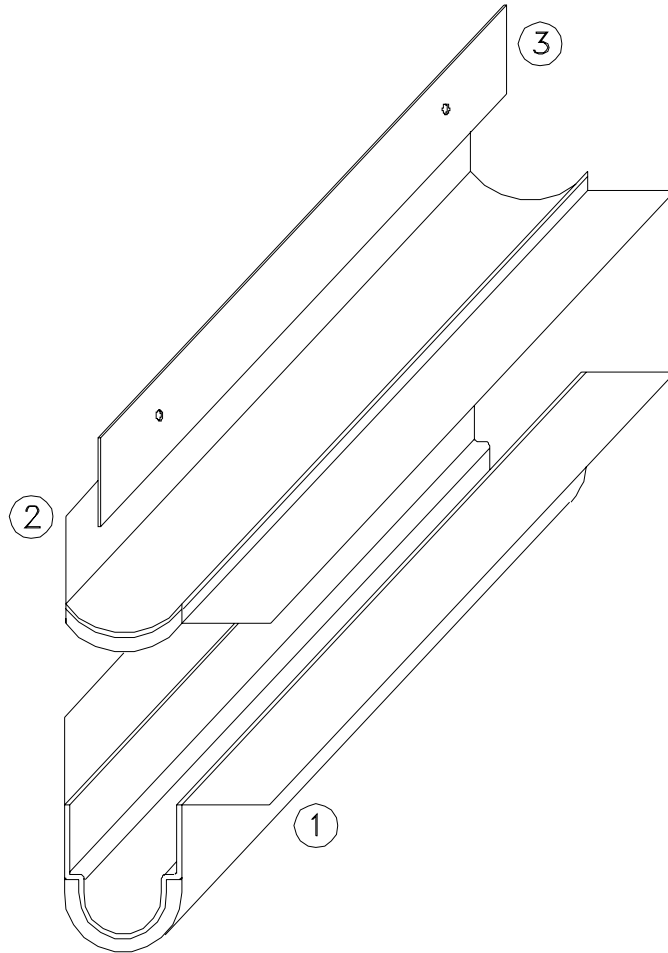


Figure 1

Tools required :

This is a list of tools and materials recommended for use in the installation of MetaMat. These tools and materials are not provided by Balco, Inc.

- A. Electric Drill
- B. Drill Bits (appropriate for metal and substrate)
- C. Phillips, Slotted and Hex Screw Drivers
- D. Utility Knife
- E. General Purpose Adhesive

Parts:

- 1. MetaMat, Bottom Layer
- 2. MetaMat, Top Layer
- 3. Retainer (20 ga. galvanized)
- 4. Fasteners (not shown)

PROCEDURES:

These instructions are applicable to MetaMat 2 hr. fire barrier, model MFV2H06, used in conjunction with metal floor-to-wall joint cover systems (aluminum, bronze, stainless steel). The MetaMat is illustrated in Figure 1. Use the appropriate joint cover system installation instructions for installation of the joint cover.

STEP 1. Select the retainer and the wall member of the joint cover system. If anchor holes have not been predrilled into the retainer at the factory, place the wall member atop the retainer so that the top edge of each is aligned. Using the wall member as a template, mark the locations for the anchor holes on the retainer. Set the wall member aside, and drill the anchor holes into the retainer at the marked locations. Set the retainer aside.

STEP 2. Place the bottom layer of the MetaMat, fabric side down, into its installed position so that it is draped into the joint, spans the joint, and so that the fabric flanges rest on the surface of the substrate.

STEP 3. Select the MetaMat fire barrier top layer and the retainer. Place the MetaMat layer, foil side down, into its installed position so that it spans the joint and so that its aluminum foil flanges rest on top of the bottom layer's fabric flanges (Figure 2).

NOTE: THE JOINT COVER SYSTEM BASE MEMBERS MAY DIFFER FROM THOSE ILLUSTRATED IN THESE INSTALLATION INSTRUCTIONS.

STEP 4. Select the joint cover system base member. Place the base member into its installed position over the MetaMat fire barrier's flanges. Using the joint cover system base member as a template, mark the locations for the anchor holes on the foil flanges (Figure 3). Anchor spacing is 20" o.c. with anchors a minimum of 2" from each end of each base member.

STEP 5. Remove the base member from its installed position, and drill the anchor holes through the fire barrier flanges and into the substrate at the marked locations. Clean away all dust and debris from the fire barrier and from the installation area. Excess MetaMat flange material may be trimmed or folded over.

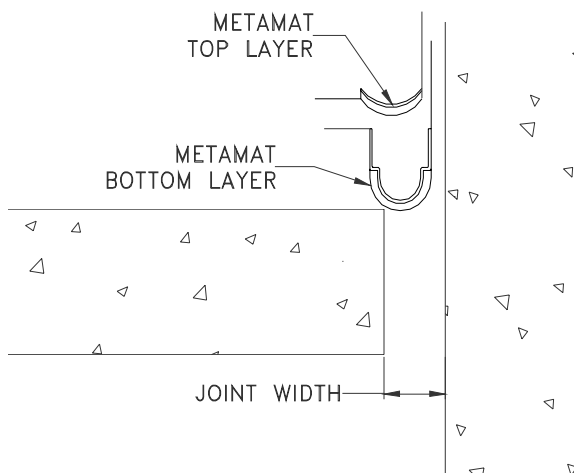


Figure 2

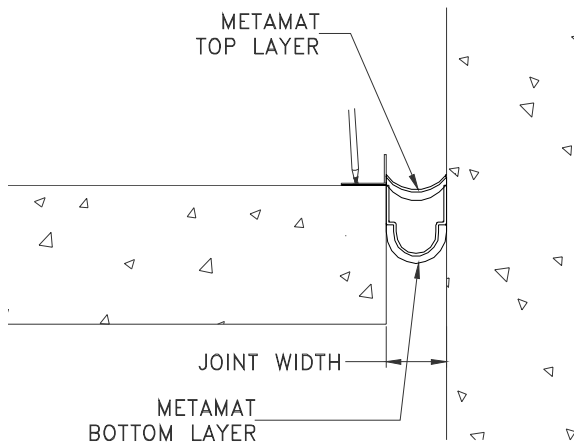


Figure 3

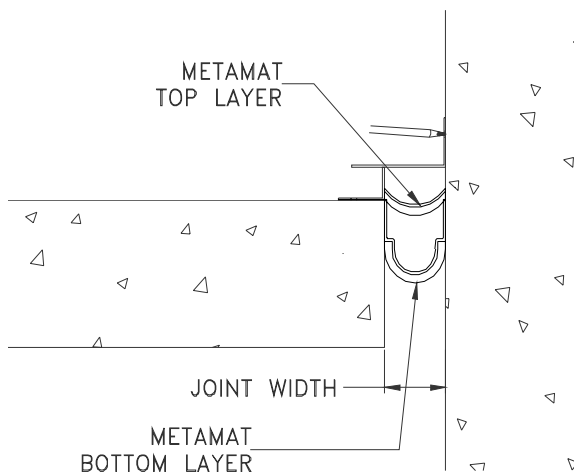


Figure 4

STEP 6. Select the joint cover system wall member. Place the wall member into its installed position over the MetaMat fire barrier's flanges on the wall. Using the joint cover system wall member as a template, mark the locations for the anchor holes on the flanges (Figure 4). Anchor spacing is 20" o.c. with anchors a minimum of 2" from each end of each wall member.

STEP 7. Remove the wall member from its installed position, and drill the anchor holes through the flanges and into the substrate at the marked locations. Clean away all dust and debris from the fire barrier and from the installation area.

STEP 8. Select the retainer, and place the retainer over the flanges on the wall surface. Ensure that the retainer is holding the MetaMat tightly against the wall surface so that the mat material completely spans the joint. Excess MetaMat flanges may be trimmed or folded over. Place the joint cover system base member and wall member back into their installed positions. Ensure that the anchor holes in the base and wall members are aligned with the anchor holes in the substrate. Attach the base and wall members to the substrate using the fasteners provided by the factory (Figure 5).

STEP 9. Complete the installation of the joint cover system in accordance with the installation instructions appropriate for the system.

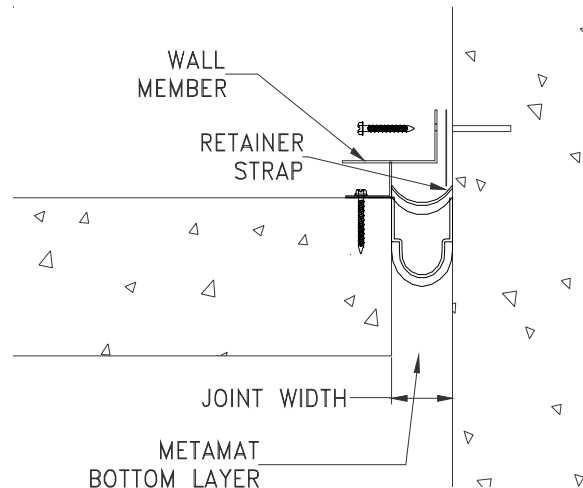


Figure 5

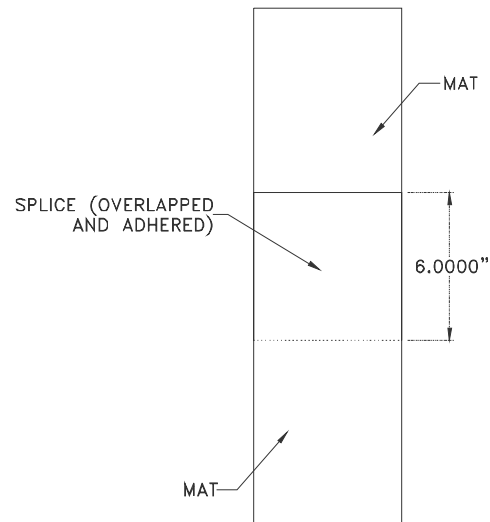


Figure 6

SPLICING:

STEP 1. Select the mating sections of the MetaMat. Overlap each separate mating layer of the mating sections of the MetaMat fire barrier so that the layers overlaps 6".

STEP 2. Using a general purpose spray adhesive (Tri-Star 315, 3M Hi-Strength 90 or equivalent spray adhesive), bond the overlap of the mating layers of mating MetaMat sections to one another (Figure 6).



INSTALLATION INSTRUCTIONS FOR BALCO, INC. 6" MAX. METAMAT™ FIRE BARRIER TRANSITIONS

The following installation instructions are very important. Read them carefully, and be sure you understand them completely before you begin any work. Store this product in the horizontal position in a clean, dry location. Store this product in a protected area.

Tools required :

This is a list of tools and materials recommended for use in the installation of MetaMat. These tools and materials are not provided by Balco, Inc.

- A. Utility Knife
- B. Spray Adhesive
- C. Tape Measure
- D. Markers (Red or Blue are recommended)

PROCEDURES:

These instructions are applicable to MetaMat fire barrier transitions in a different plane. Specifically, these instructions are for installation of transitions from wall to floor above (MW2H06 to MF2H06) and of transitions from wall to ceiling above (MW2H06).

Wall to Floor Above

- STEP 1.** If the transition is field fabricated, prepare the transition in accordance with the shop drawings provided and the instructions on the drawing.
- STEP 2.** Install the floor fire barrier in accordance with the appropriate installation instructions. Select the transition. Place the transition into its installed position so that the horizontal leg of the transition cradles the drape of the floor fire barrier package and so that the vertical leg of the transition is in the proper position in the wall.
- STEP 3.** Bond the horizontal leg of the transition onto the bottom of the mating floor MetaMat package.
- STEP 4.** Install the vertical leg of the transition in accordance with the appropriate installation instructions for MetaMat in walls. Place anchors for the wall MetaMat at 3" from the top of the vertical leg of the transition
- STEP 5.** Select a lacing anchor. Push the lacing anchor through the horizontal leg of the transition and the floor MetaMat package. Push the galvanized washer onto the lacing anchor nail and bend the nail over. Ensure that the edge of the lacing anchor washer is along or near the centerline of the fire barrier.
- STEP 6.** Install the wall fire barrier, MetaMat, splicing the vertical leg of the transition with the vertical MetaMat in accordance with the standard installation instructions.
- STEP 7.** Install the floor joint cover system and the wall joint cover system in accordance with the installation instructions for the system

Wall to Ceiling Above

- STEP 1.** Install the ceiling fire barrier in accordance with the appropriate installation instructions. The ceiling fire barrier shall be extended at the interface with the wall joint so that its end will be flush with the bottom of the wall fire barrier at its maximum drape.
- STEP 2.** Install the wall fire barrier in accordance with the appropriate installation instructions. At the intersection of the wall fire barrier and the ceiling fire barrier, the wall fire barrier shall extend into the drape of the ceiling fire barrier to its bottom. Bond each edge of the wall fire barrier to the corresponding edge of the ceiling fire barrier so that the proper drape of the wall fire barrier is maintained at the transition. Use the same glue to bond the fire barriers together as is used for the fire barrier installation.
- STEP 3.** Install the ceiling joint cover system and the wall joint cover system in accordance with the installation instructions for the system