

MODEL FB22 1"- 2" FLOOR FIRE BARRIER INSTALLATION INSTRUCTIONS



IMPORTANT INFORMATION

Prior to the commencement of Installation all materials **MUST** be inspected for Damage. Any damage must be reported to Construction Specialties as soon as possible, so that replacement materials may be furnished without delay.

All work must be completed as per Architect's Approved "Shop Drawings", and in accordance with these Installation Instructions. When installation is complete, all materials must be protected from damage until the Architect's FINAL INSPECTION.

All materials should be arranged in the order that they are to be installed. All hardware required for each portion of the work should be placed with the appropriate materials.

Please review all Approved Shop Drawings and this Document to familiarize yourself with all the details and components of this assembly.

IMPORTANT:

READ THROUGH ALL INSTRUCTIONS PRIOR TO STARTING INSTALLATION

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General Instructions:

ALWAYS WEAR GLOVES when handling and cutting the barrier.

Before beginning installation, review the architectural drawings and approved Construction Specialties Inc. shop drawings to familiarize yourself with the joint cover models and locations.

Check all of the joint cover components to confirm that the correct joint cover model and size have been received. Also, check for materials that may have been damaged during shipping. Report all incorrect and/or damaged components to CS at 800-233-8493.

Read through all the steps of these instructions prior to beginning work.

TOOLS:

The following tools may be needed for installation of the 2FB22 & 3FB22 fire barrier:

- Fabric or Leather Work Gloves - Dust Mask - Permanent Marker - Measuring Tape - Utility Knife

Model designating - 2FB22 & 3FB22 Floor 1"- 2" (Nominal Joint Width)

FB22 Nomenclature

Example: 2FB22 - F2

Hour rating ← ↓ Joint size
Fire Barrier Family Floor

INSTALLATION NOTES

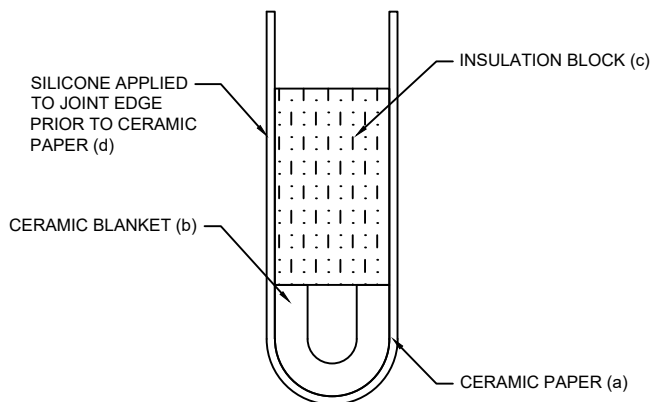
1.) The FB22 floor Fire Barrier components are:

- 1/8" thick ceramic paper - 25 LF rolls (1" joint - 11" wide, 2" joint - 13" wide)
- 1/2" thick ceramic blanket - 25 LF rolls (1" joint - 2 1/2" wide, 2" joint - 5" wide)
- Fiberglass insulation block - 25 LF sticks (1" joint - has 2 layers, 2" joint - has 4 layers)
- High temperature silicone
- Foil tape

2.) If job has wall fire barrier, FB22 floor fire barrier must be installed first and must extend into wall opening deep enough for wall fire barrier to set on top.

3.) If the job has any Fire Barrier Transitions start by installing the transitions before the straight run lengths of the Fire Barrier. A transition is an area where the Fire Barrier changes direction (a 90° corner, a 90° Up - horizontal to vertical condition, a "T" or Crossover section etc.).

4.) If insulation blocks have splits in materials, see the supplemental instructions on page 7.



1"-2" FLOOR FB22



STEP 1

INSTALLATION OF FIRE BARRIER CERAMIC PAPER

Note: The Ceramic Paper is a thin, 1/8" material thickness, foiled white blanket.

Surface Preparation - Make sure concrete faces are clean and free of dust and contaminants that would interfere with adhesion of silicone.

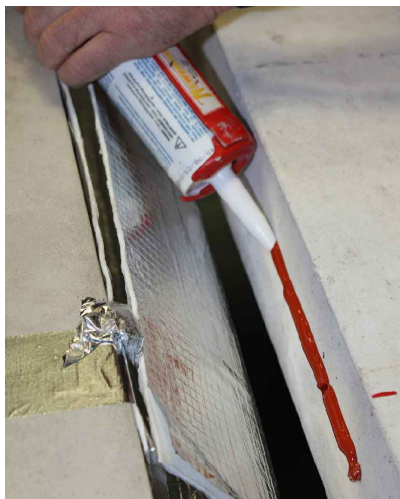
- 1.1) Unroll Ceramic Paper roll at joint edge, fold in half without creasing, install into the joint space aligning top edge with concrete slab and temporarily tape in place on one side of joint. (Fig. 1A)
- 1.2) Pull ceramic paper to one side and apply 3/8" silicone bead to exposed concrete edge approximately 2" down from top of slab. (Fig. 1B-1C) Note: 3/8" silicone bead based on smooth joint surfaces. Rough joint walls may require larger bead to insure contact/adhesion.
- 1.3) Release ceramic paper and set in silicone bead, align paper with top edge of slab and tape in place for silicone to cure. (Fig. 1D) Repeat for other side.



(Fig. 1A)



(Fig. 1B)



(Fig. 1C)

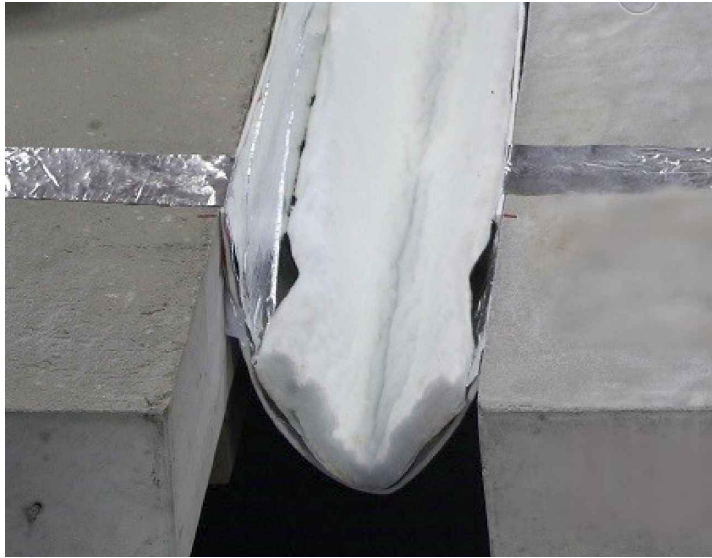


(Fig. 1D)

STEP 2

CERAMIC BLANKET INSTALLATION

- 2.1) Unroll Ceramic Blanket Roll along the joint with foil facing down, fold in half without creasing and center in bottom of the joint space.
(Fig. 2A)



(Fig. 2A)

STEP 3

INSULATION BLOCK INSTALLATION

Note: Insulation Blocks are provided with 45° beveled ends, starting end lengths need to be cut square.

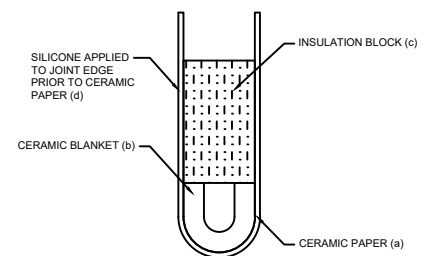
- 3.1) Position Insulation Block having one side of the material resting slightly to the inside of the joint. Pinch back end of the Insulation Block so that it begins to funnel into the joint, at the same time pushing down into the joint to seat. Work down along the length of the material as you continue to pinch and push the Insulation Block into place. (Fig. 3A-3C)



(Fig. 3A)



(Fig. 3B)



1'-2" FLOOR FB22

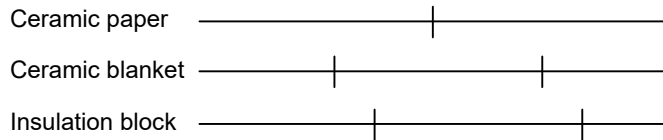
(Fig. 3C)

- 3.2) The installation of the 2-hour FB22 Fire Barrier is now complete.

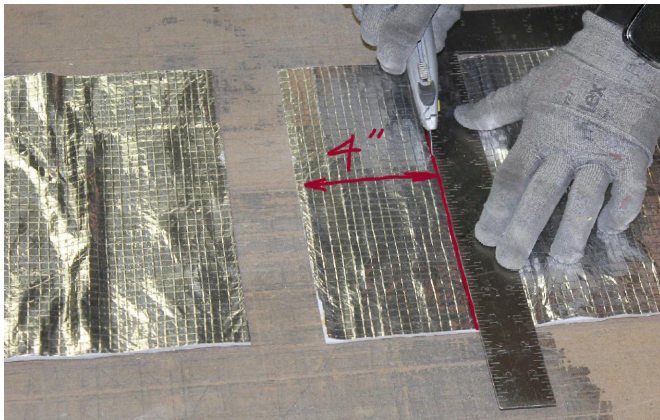
STEP 4

SPLICING FB22 INSTALLATION

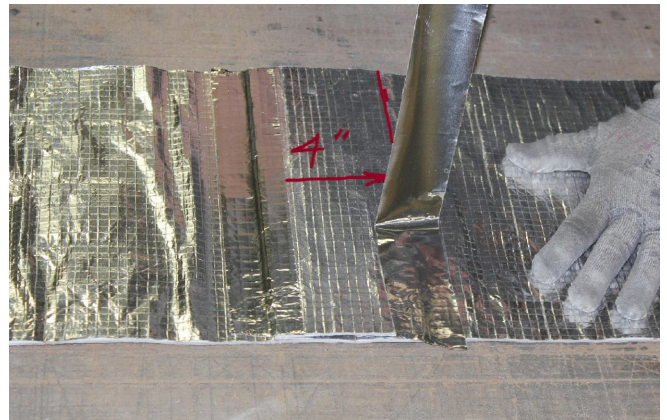
Note: All components of the FB22 are supplied in 25 LF lengths. For longer lengths of FB22 use the following instructions to splice two or more sections together. *It is important to Stagger, offset by a minimum of 12", all splices of Ceramic Paper, Insulation Blanket and Insulation Block. Splices between components should not be at the same location or align vertically with each layer. See below example.



- 4.1) To splice Ceramic Paper cut off 4" of the next Ceramic Paper roll length. Butt together the two lengths of Ceramic Paper, taping with the supplied foil tape. On the opposite side of the Ceramic Paper, center the 4" wide cut off piece over the splice seam and tape in place. (Fig. 4A - 4B)



(Fig. 4A)



(Fig. 4B)

- 4.2) To splice lengths of Ceramic Blanket lay each blanket segment flat, butt the two sections together and tape foil side using the supplied foil tape. (Fig. 4C-4D)



(Fig. 4B)

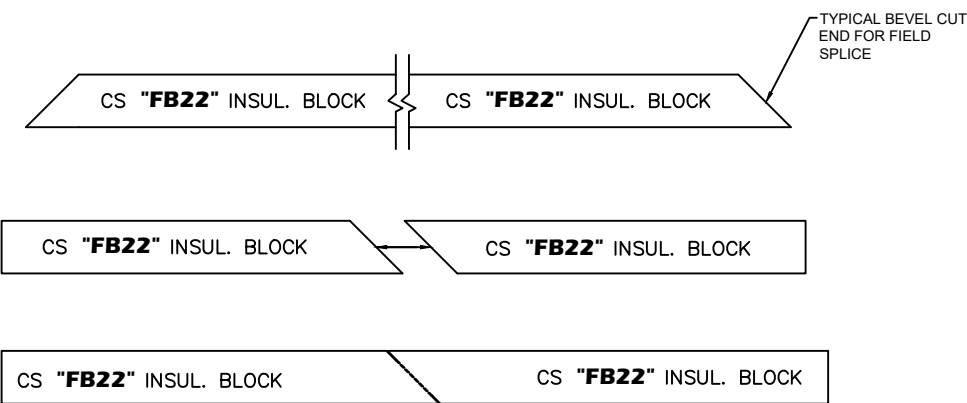


(Fig. 4C)

STEP 4 CON'T.

SPLICING FB22 INSTALLATION

4.3 To field splice the Insulation Block butt together the bevel cut ends to provide enough for the entire run. (Fig. 4E)



(Fig. 4E)

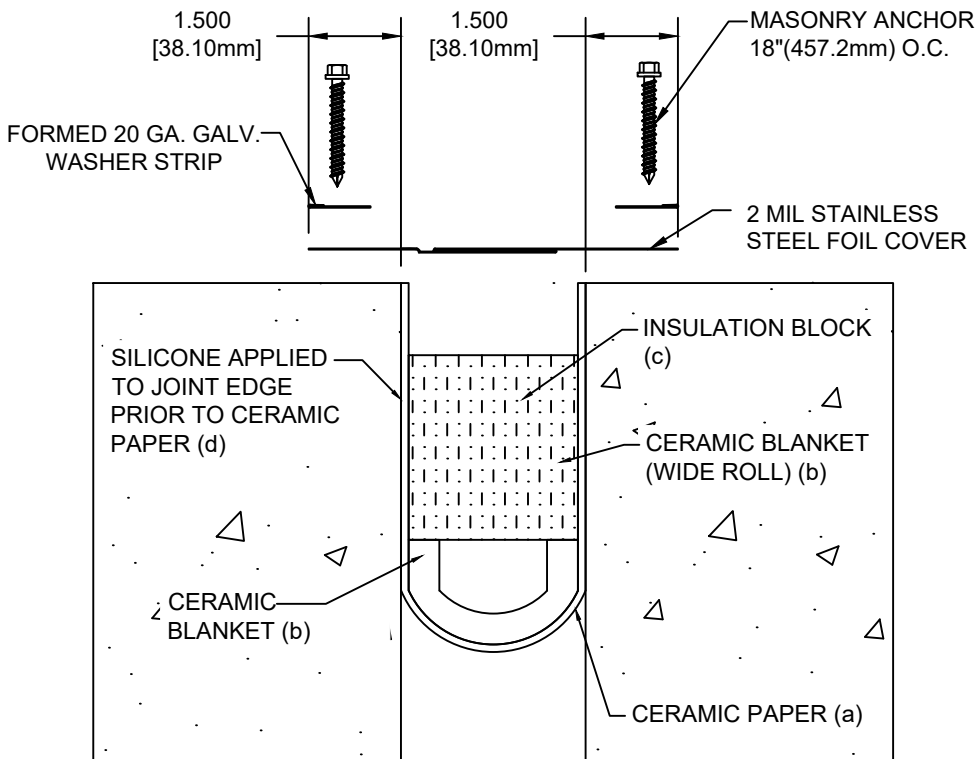
STEP 5

SSF WITH FB22 FLOOR FIRE BARRIER

SSF-FB22 FLOOR INSTALLATION

Note: Stainless Steel Foil Cover is only required where indicated on approved CS shop drawings. The Stainless Steel Foil Cover to be folded to the profile as indicated and any additional lengths folded in the same direction.

- 5.1) Begin installation of the Stainless Steel Foil Cover by placing a length of the Cover over the joint. Cut the Stainless Steel Foil Cover to length as needed.
- 5.2) Align one edge of the Foil Cover 1 1/2" from the edge of the joint (the edge of the Stainless Steel Foil Cover and the edge of the joint should be parallel). Install the Washer Strip, aligning the end with the Stainless Steel Foil edge. Fasten in place, 18' O.C., with the supplied fasteners per the manufacturer's guidelines. (Fig. 5A)
- 5.3) Repeat this installation procedure for the opposite side of the joint and for all additional lengths of Stainless Steel Foil Cover.



(Fig.5A)

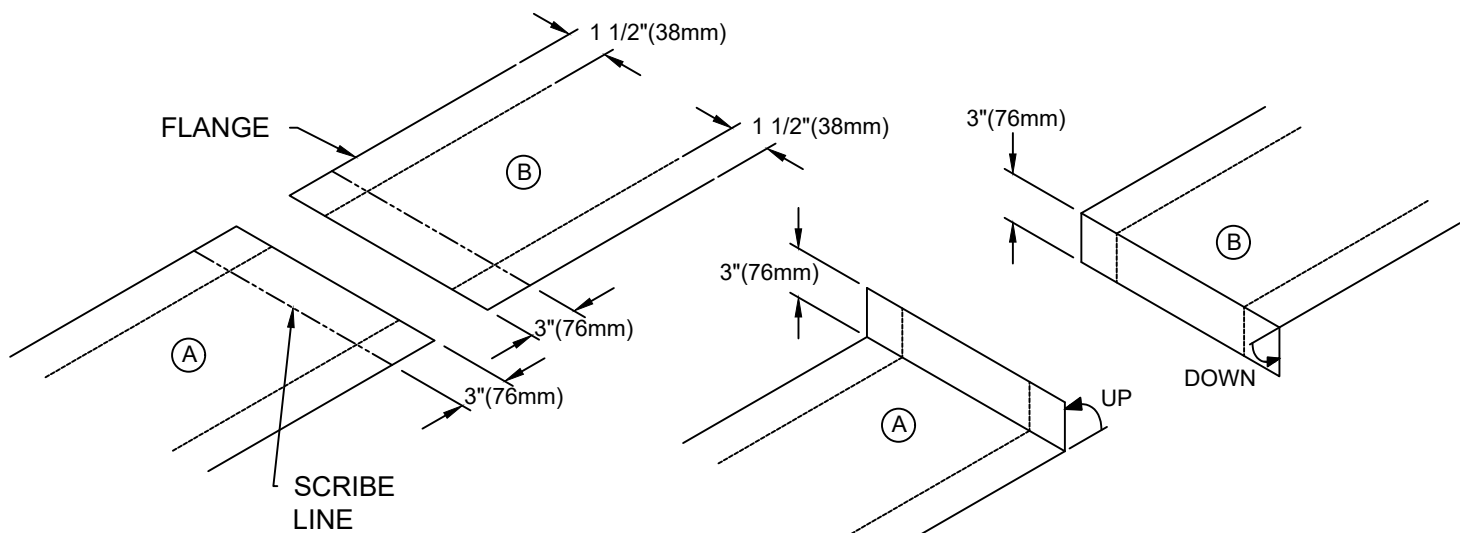
STEP 5 CONT

SSF WITH FB22 FLOOR FIRE BARRIER

SSF SPLICING INSTALLATION

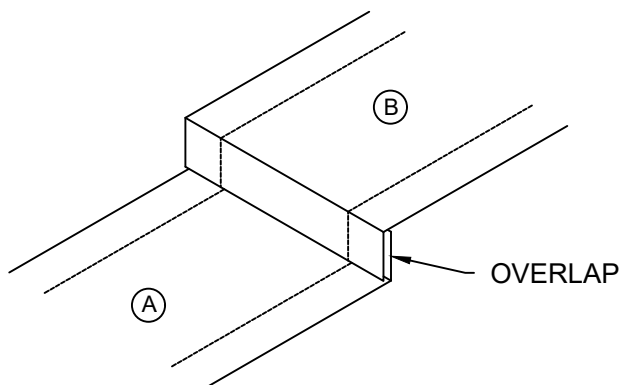
Note: When longer lengths of Stainless Steel Foil Cover is required, lengths may be spliced together as instructed. To create a Field Splice it may be best to leave extra on the two lengths and trim the run length after the splice is created.

- 5.4) Position the ends of the two lengths of Stainless Steel Foil to be spliced near each other. Measure in 3" from the end and scribe a folding line on the surface of each piece.
- 5.5) Using a straight edge as a guide, fold the end of length "A" up at 90° and the end of length of "B" down at 90°.
- 5.6 Place piece "B" over piece "A" so the folded, 3" lengths overlap.
- 5.7) Fold the overlapping 3" legs of both pieces flat so that they interlock to form an overlapping splice.

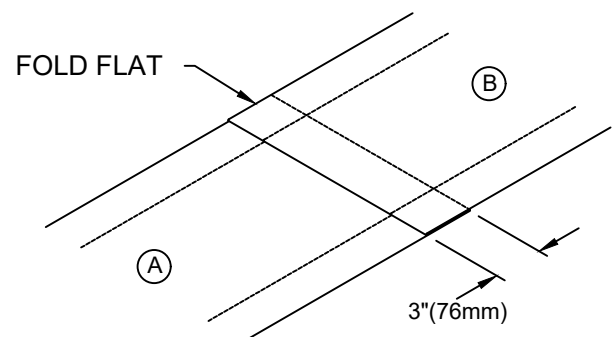


STEP 1.1

STEP 1.2



STEP 1.3



STEP 1.4

SUPPLEMENTAL INSTRUCTIONS

SPLIT INSULATION BLOCKS

Note: It is possible for Insulation Blocks to arrive with split layers due to folding and packaging. Splitting of the layers is acceptable up to 50% of the material width (Fig. X1). If splitting has occurred beyond acceptable limits (Fig. X2), the split area can be removed by measuring back 6" each direction (Fig. X3a) from the separated area, cutting at 45° (Fig. X3b) and butting insulation blocks together (Fig. X3c) per the standard splice method described in STEP 4.



(Fig. X1)



(Fig. X2)



(Fig. X3a)



(Fig. X3b)



(Fig. X3c)