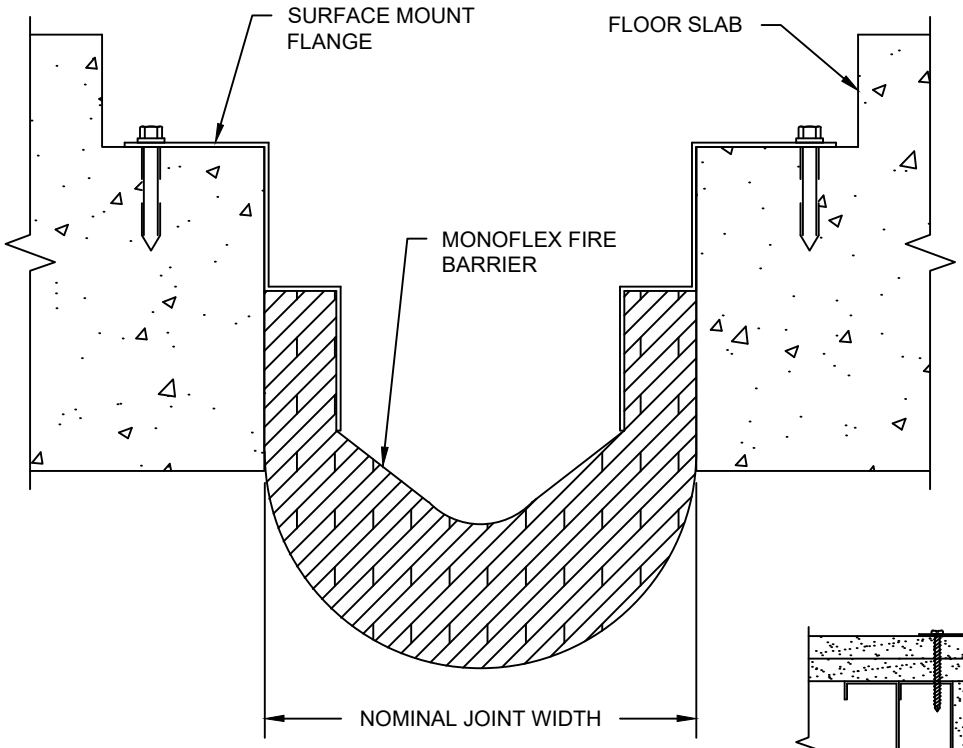
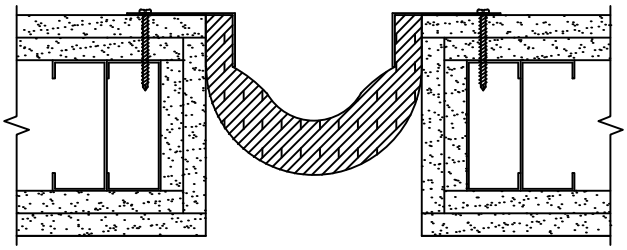
SUPPLEMENTARY MODEL 1"-6" MONOFLEX FIRE BARRIER INSTALLATION INSTRUCTIONS





WALL JOINT

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

10/29/2015

Construction Specialties™
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GENERAL NOTES

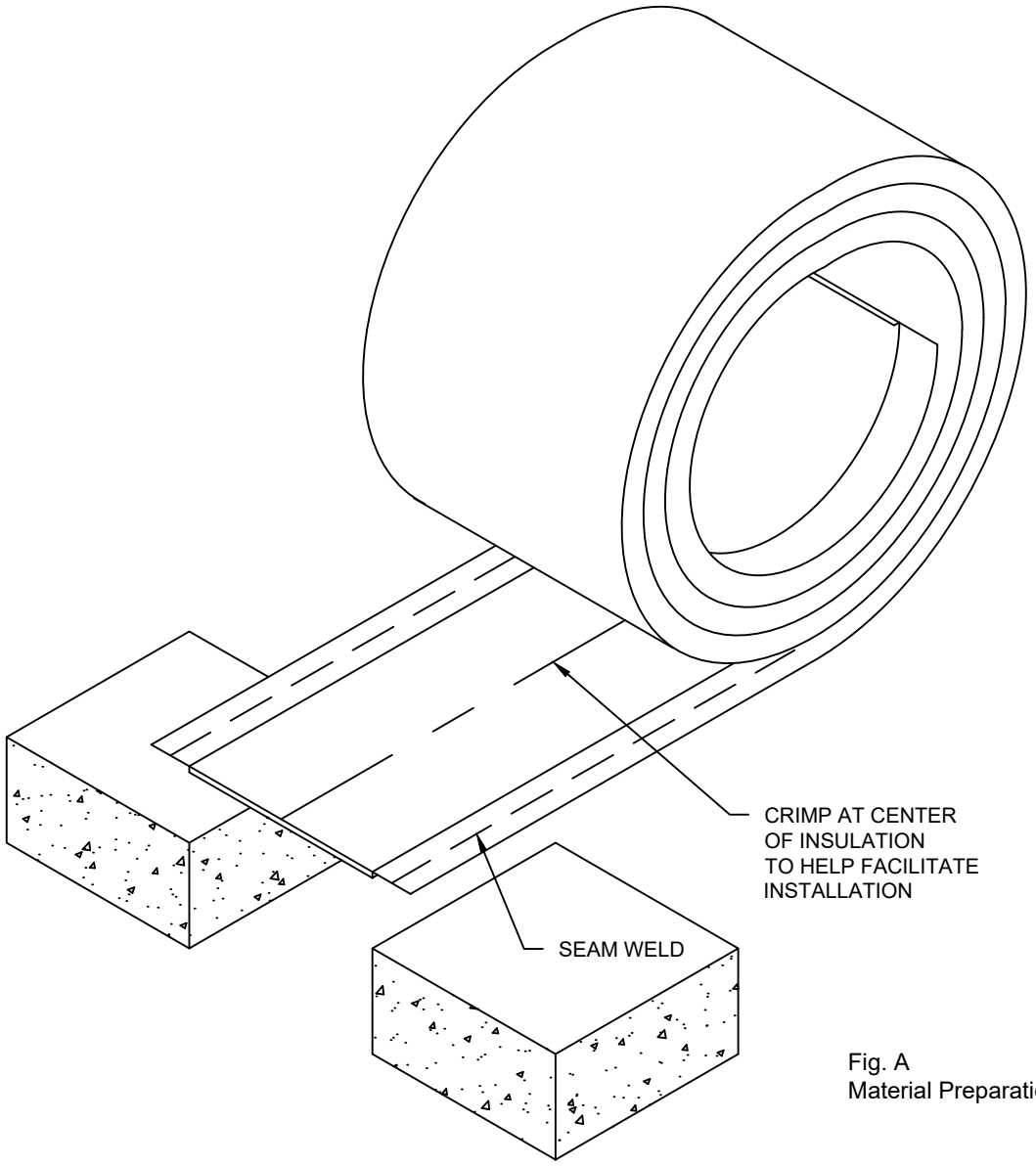


Fig. A
Material Preparation

General Instructions:
* Fire Barriers must be installed in accordance with installation instructions to maintain UL Rating.
* These instructions are for all horizontal and vertical Monoflex installations for 1"-6" nominal joint widths.
* If splicing is required, see the separate splicing instructions.
* The galvanized flanges are always required for installation.
* Typically, the same fasteners can be used to fasten the cover plate mechanism and the fire barriers.
* Wear heavy duty work gloves and eye protection during the entire installation process.

Packaging:
Each carton contains one 25 foot roll of Monoflex Fire Barrier, one kit with the necessary material for splicing.
The galvanized flanges necessary for installation are packaged separately.

Material Preparation:
Roll out product face up (the side with the UL label) and cut to length. The insulation portion of the product can be formed into a "U" or "V" shape to help it fit into the expansion joint. This can be done by crimping the insulation along the center line with a pipe or board. (See Fig. A)

HORIZONTAL or FLOOR AND ROOF JOINTS

STEP 1

After completing material preparation described on page 2 and as shown in Fig. A, place the fire barrier in the expansion joint. The foil flanges can be folded along the seam weld line onto the exposed face of the concrete slab (See Fig. B). With the Low Profile (LP) galvanized flange, the foil flanges can be folded along the seam weld line down inside the expansion joint void so that no part of the barrier is on the exposed surface of the floor (See Fig. C).

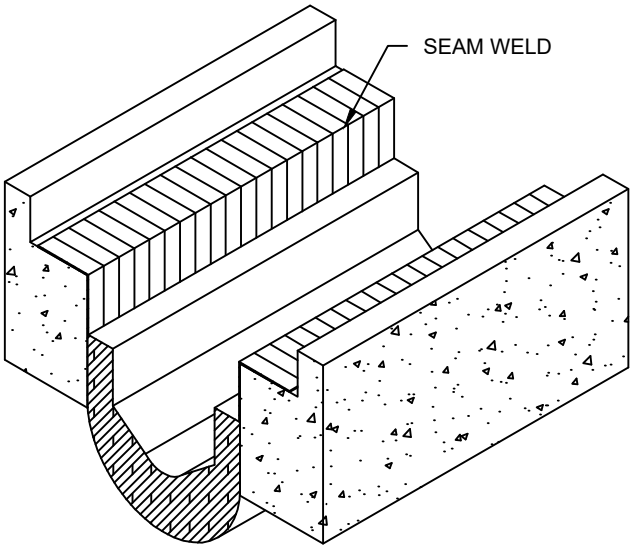


Fig. B
Surface Mount Flange Installation

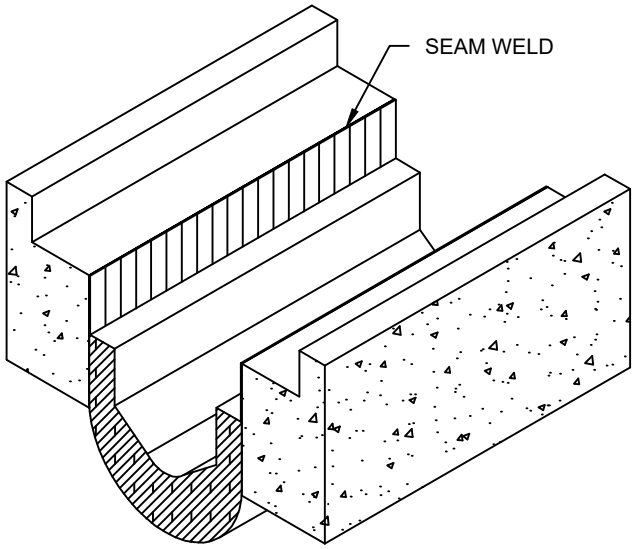


Fig. C
LP Flange Installation

STEP 2

Cut the galvanized flanges to length and drill appropriate size holes with maximum spacing of 18". Install the flanges with appropriate fasteners as shown. (See Figs. D & E)

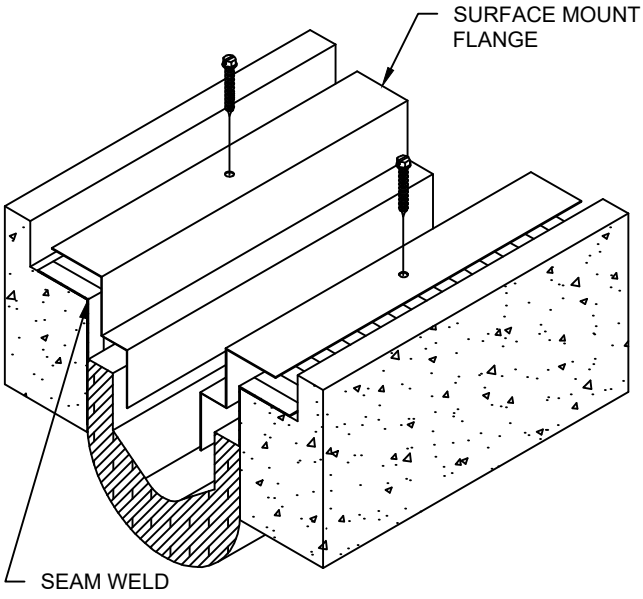


Fig. D
Surface Mount Flange Installation

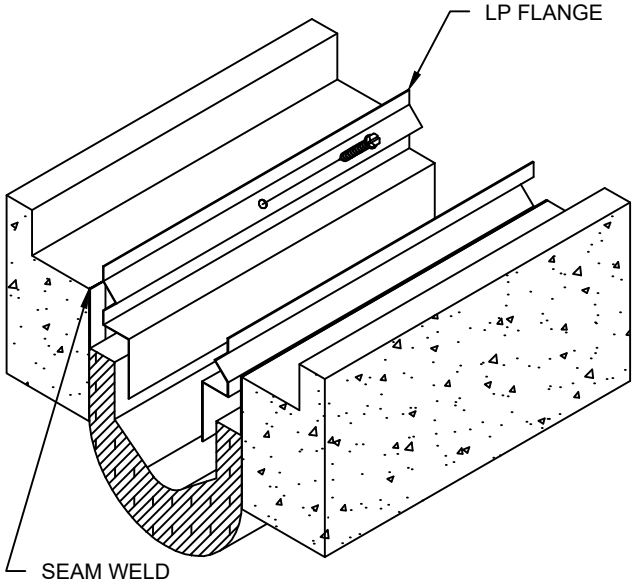


Fig. E
LP Flange Installation

STEP 3

Install the expansion joint covers (reference expansion joint cover instructions) over the joint or in the blockout with appropriate fasteners.

WALL JOINTS

STEP 1

After completing material preparation described on page 2 and as shown in Fig. A, place the fire barrier in the expansion joint. The foil flanges can be entirely on the exposed surface of the wall for the Surface Mount galvanized flange (See Fig. B1).
With the Low Profile (LP) galvanized flanges, the foil flanges can be inside the joint cavity so that no part of the barrier is on the exposed surface of the wall (See Fig. C1).

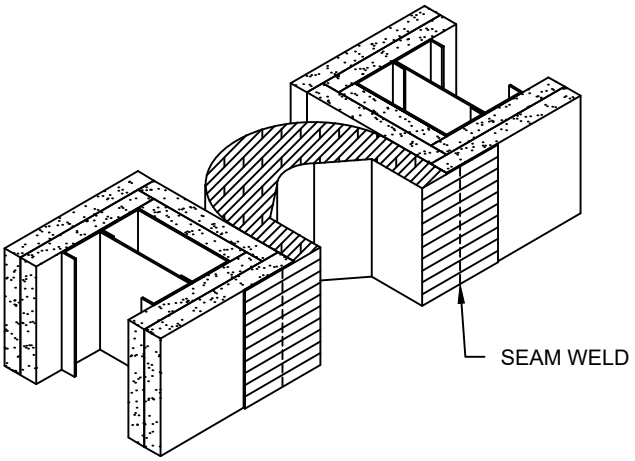


Fig. B1
Surface Mount Flange Installation

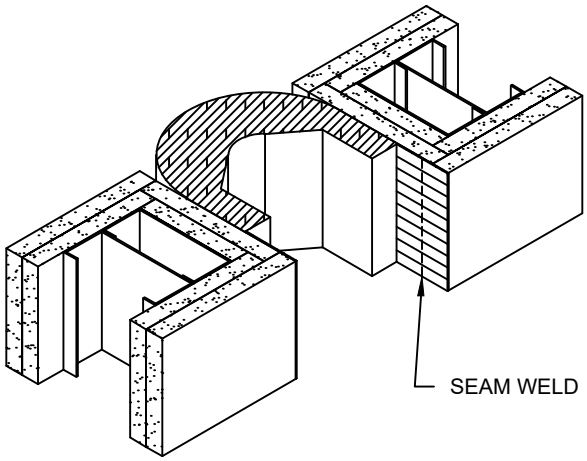


Fig. C1
LP Flange Installation

STEP 2

Cut the galvanized flanges to length and drill appropriate size holes with maximum spacing of 18". Install the flanges with appropriate fasteners as shown (See Figs. D1 & E1).

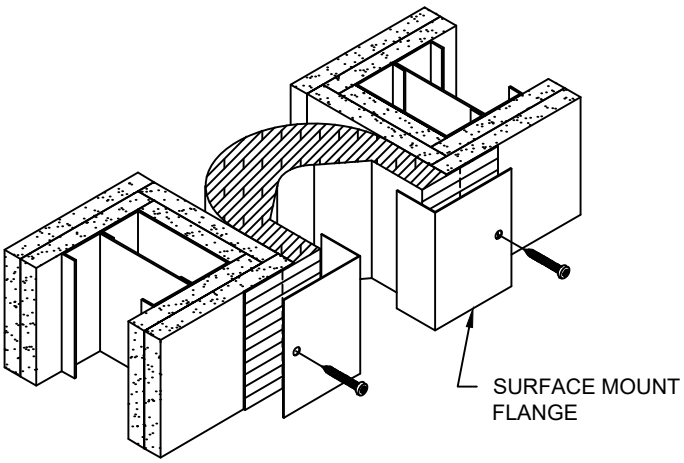


Fig. D1
Surface Mount Flange Installation

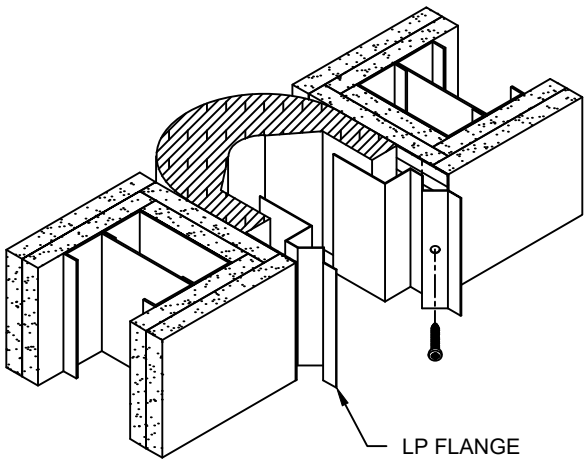


Fig. E1
LP Flange Installation

STEP 3

Install the expansion joint covers (reference expansion joint cover instructions) to either side or both sides of the wall when accessible with appropriate fasteners.

FLOOR to WALL & ROOF to WALL

STEP 1

After completing material preparation described on page 2 and as shown in Fig. A, place the fire barrier in the expansion joint. The foil flanges can be folded along the seam weld line onto the exposed face of the floor slab. The foil flange can be run up the wall on the other side of the joint (See Fig. B2). With the Low Profile (LP) galvanized flange configuration on the wall side, the foil flange can be folded over itself before the galvanized flange is fastened into place (See Fig. C2).

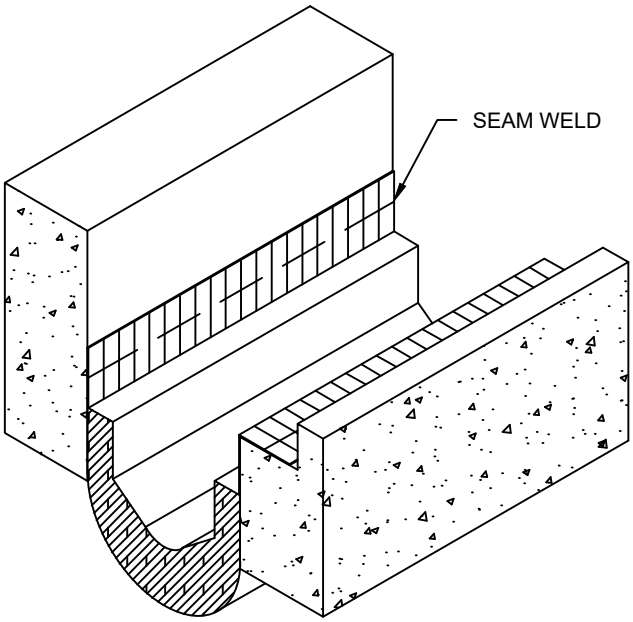


Fig. B2
Surface Mount Flange Installation

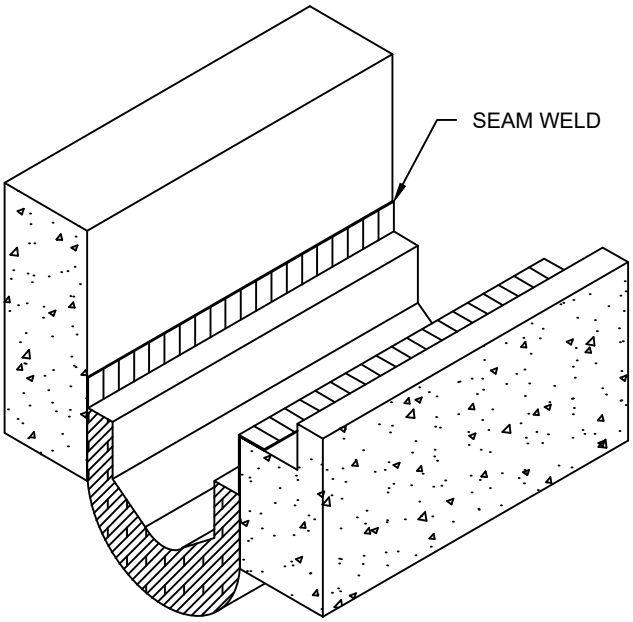


Fig. C2
LP Flange Installation

STEP 2

Cut the galvanized flanges to length and drill appropriate size holes with maximum spacing of 18". Install the flanges with appropriate fasteners as shown (See Figs. D2 & E2).

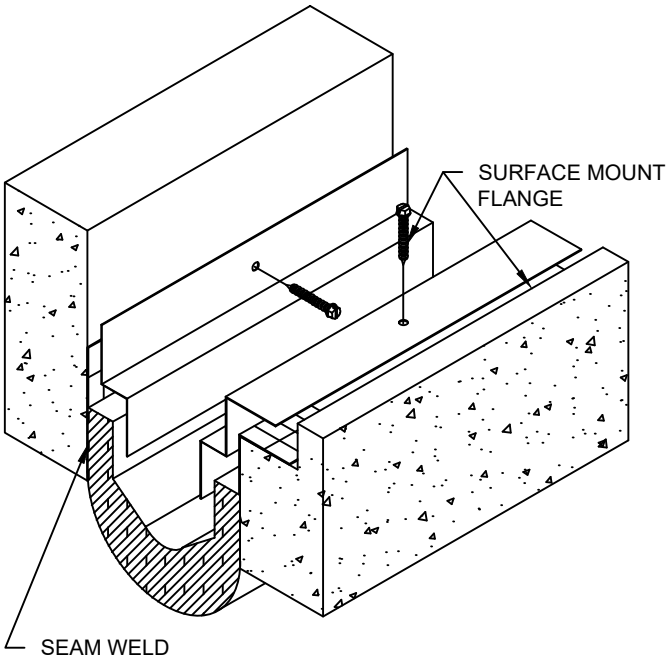


Fig. D2
Surface Mount Flange Installation

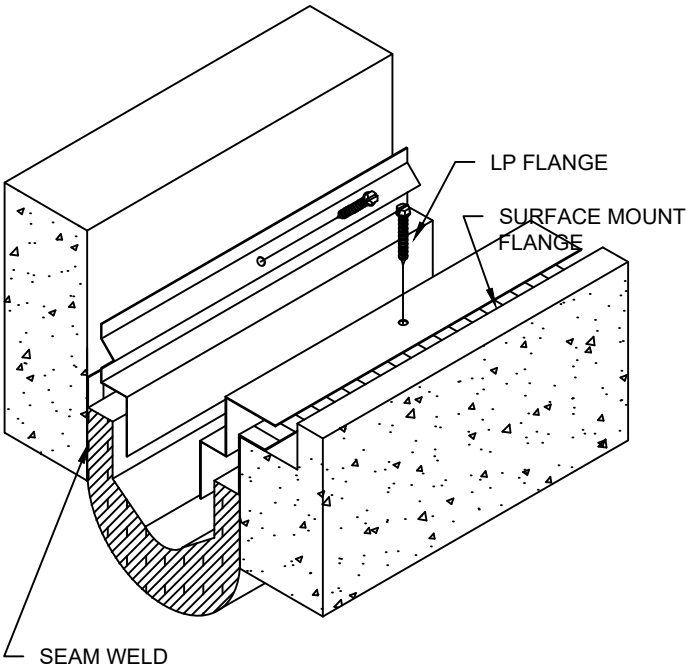


Fig. E2
LP Flange Installation

STEP 3

Install the expansion joint covers (reference expansion joint cover instructions) over the joint or in the blockout with appropriate fasteners.

CORNER WALL JOINTS

STEP 1

After completing material preparation described on page 2 and as shown in Fig. A, place the fire barrier in the expansion joint. The foil flanges can be folded along the seam weld line onto the exposed face of the wall. The foil flange can be run out the wall on the other side of the joint (See Fig. B3). With the Low Profile (LP) galvanized flange configuration on the wall side, the foil flange can be folded over itself before the galvanized flange is fastened into place (See Fig. C3).

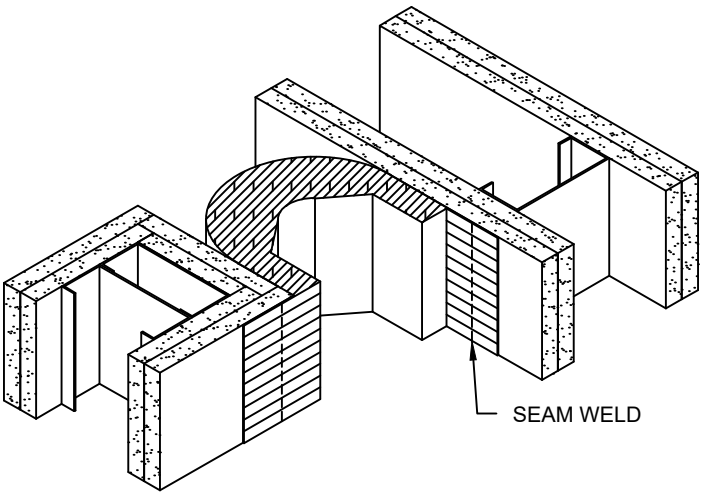


Fig. B3
Surface Mount Flange Installation

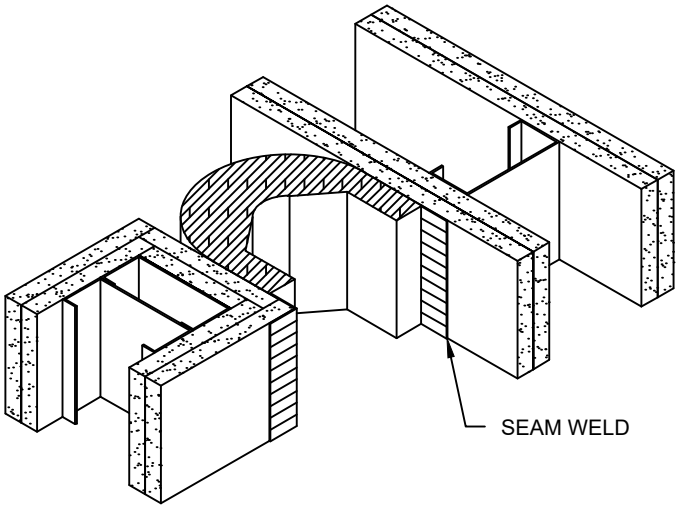


Fig. C3
LP Flange Installation

STEP 2

Cut the galvanized flanges to length and drill appropriate size holes with maximum spacing of 18". Install the flanges with appropriate fasteners as shown (See Figs. D3 & E3).

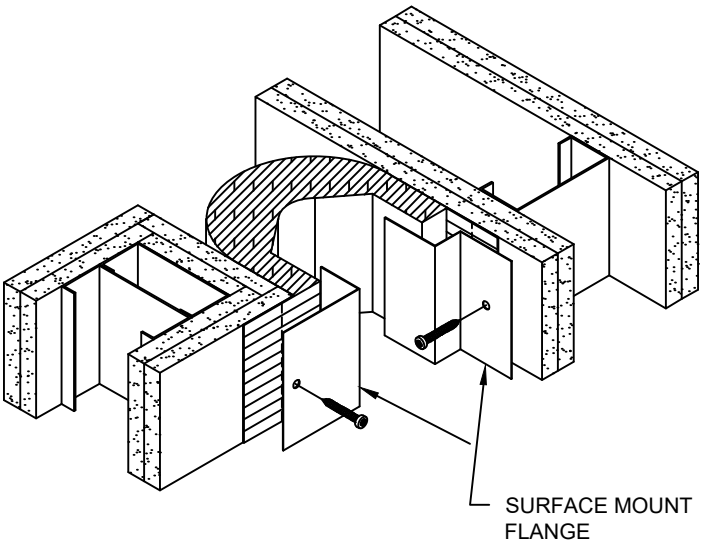


Fig. D3
Surface Mount Flange Installation

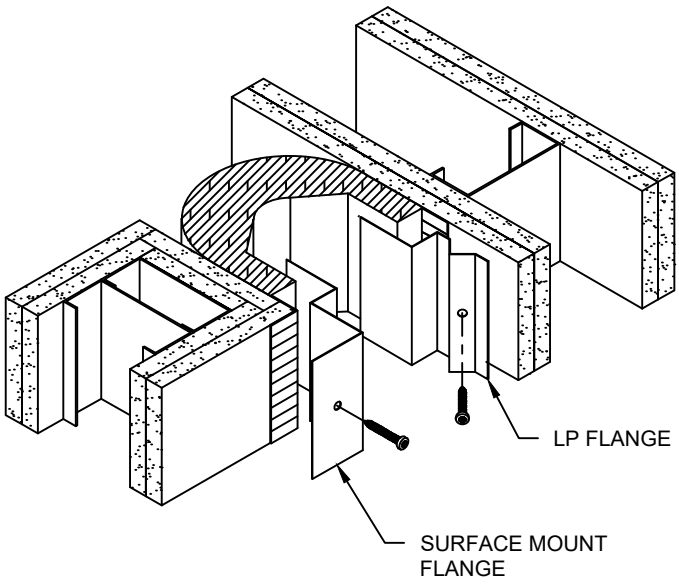


Fig. E3
LP Flange Installation

STEP 3

Install the expansion joint covers (reference expansion joint cover instructions) to either side or both sides of the wall when accessible with appropriate fasteners.

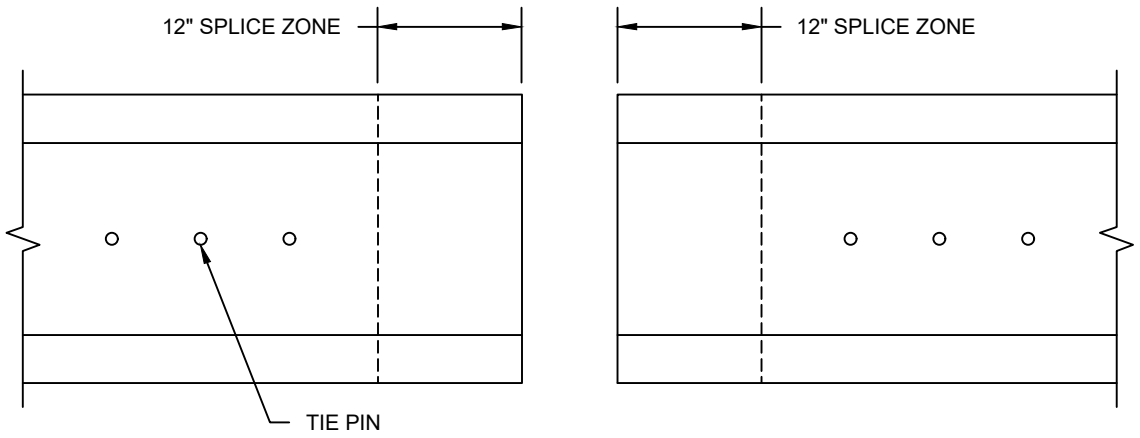
SPLICING INSTRUCTIONS

In some cases it will be necessary to make longer sections of expansion joint blankets out of smaller pieces. In these cases the following instructions are to be used to splice two or more pieces together. It is highly recommended that this procedure be performed prior to installation in the wall or floor, as this procedure is much less time consuming when performed on a flat surface. After the splicing is completed, the installation procedure remains the same as described in the installation instructions.

Note: Fire Barriers must be spliced in accordance with splicing instructions to maintain UL Rating.

STEP 1

Lay each blanket segment on a flat surface. Measure out 12" from the ends of each blanket to be spliced. Draw a line directly across each package at the 12" mark. This will be the splice zone. Remove all of the tie pins from within the splice zone of each blanket (See Figs. 1 & 2).



TOP VIEW OF BLANKETS
TO BE SPLICED

Fig. 1

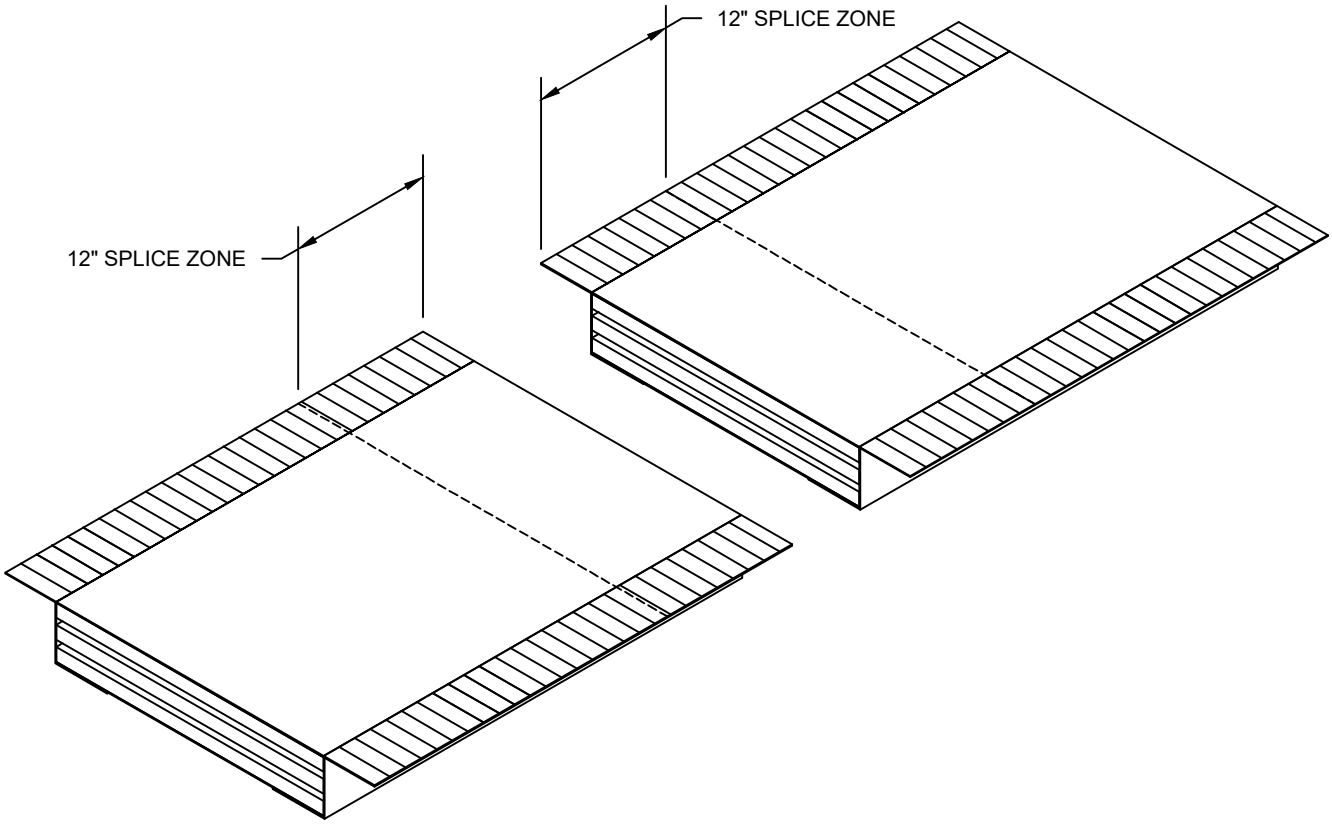


Fig. 2

SPLICING INSTRUCTIONS

STEP 2

Make a "tongue and groove" type splice by cutting away every other layer of insulation in the splice zone on each blanket segment and save the scraps for future use. Make the opposite cuts on the other half of the splice. Trim the metallic septum layers the same length as the insulation adjacent to them (See Figs. 3 & 4).

Note: If flanges are pre-welded to the blanket segments, the flanges must be cut back in one of the splice zones. Overlapping galvanized flanges are not allowed.

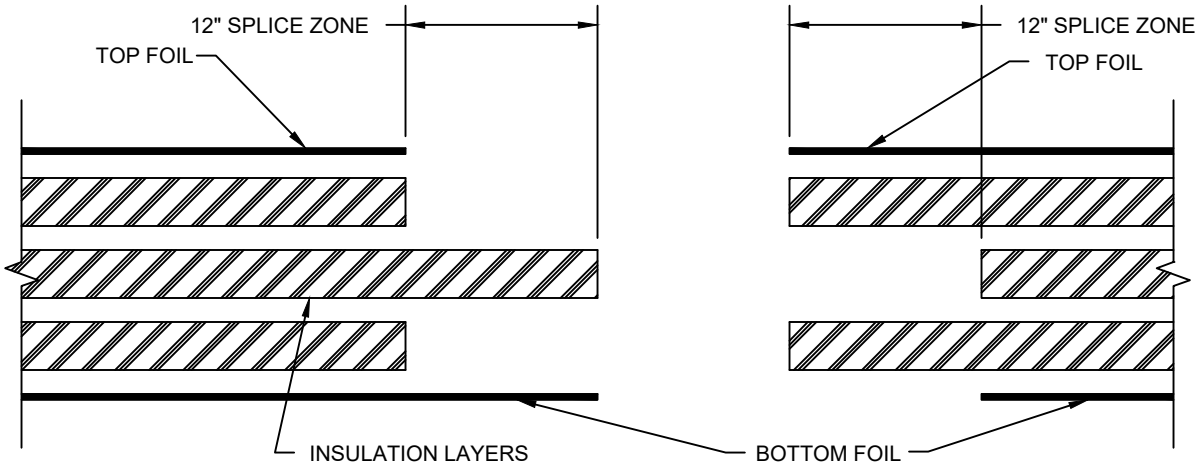
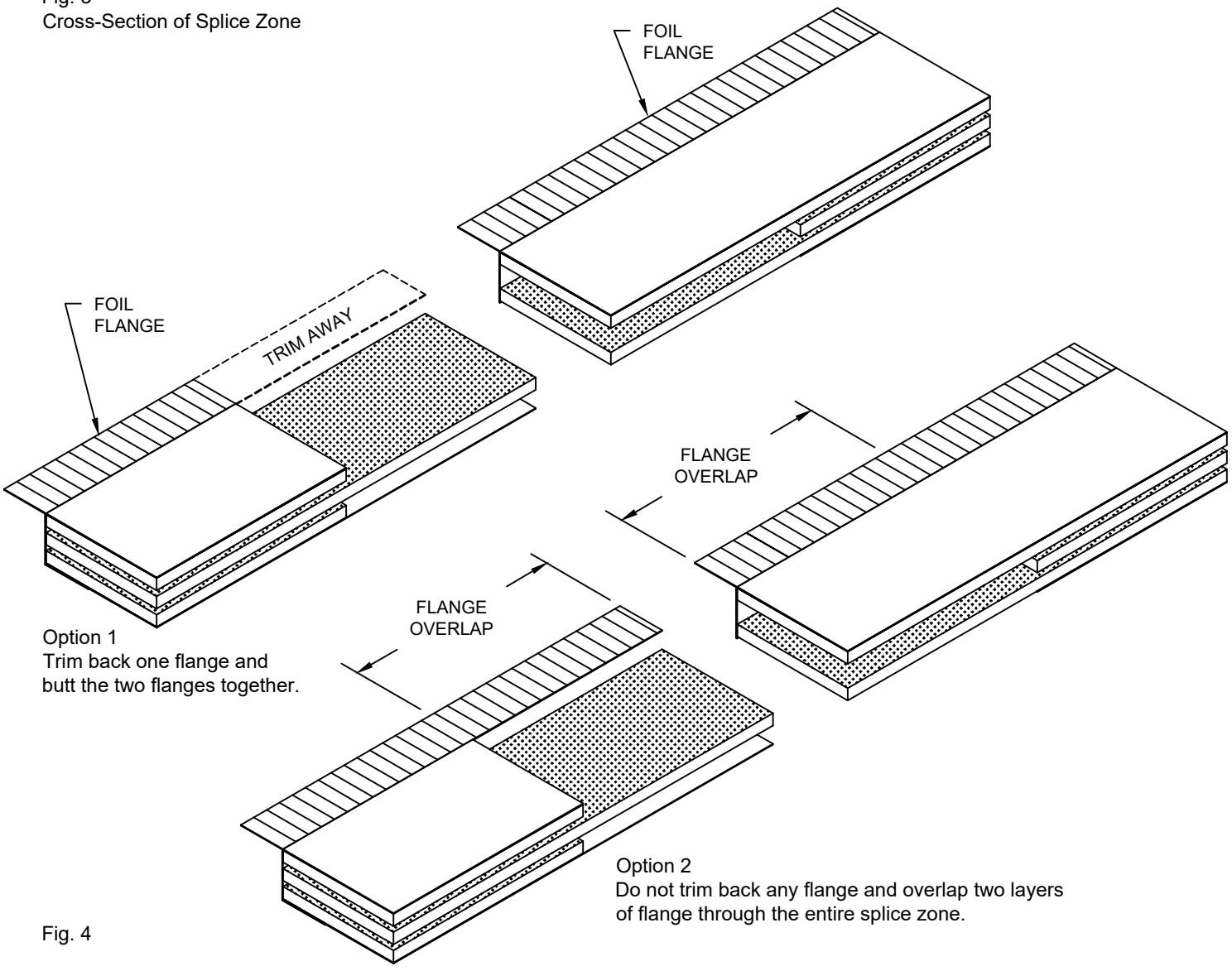


Fig. 3
Cross-Section of Splice Zone



Option 1
Trim back one flange and butt the two flanges together.

Option 2
Do not trim back any flange and overlap two layers of flange through the entire splice zone.

Fig. 4

SPLICING INSTRUCTIONS

STEP 3
Assemble the two blanket segments, interweaving the insulation layers (See Figs. 5 & 6).

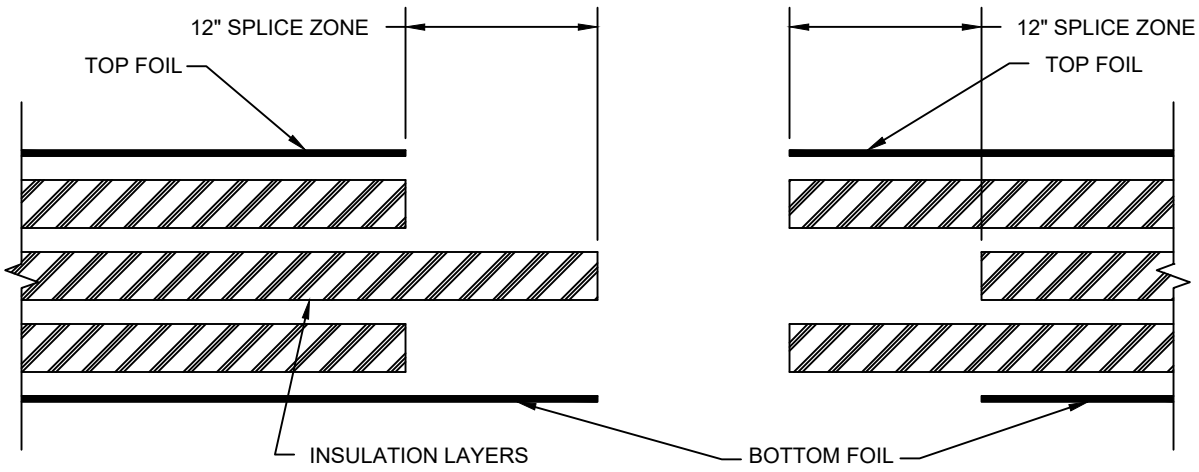


Fig. 5
Cross-Section of Splice Zone

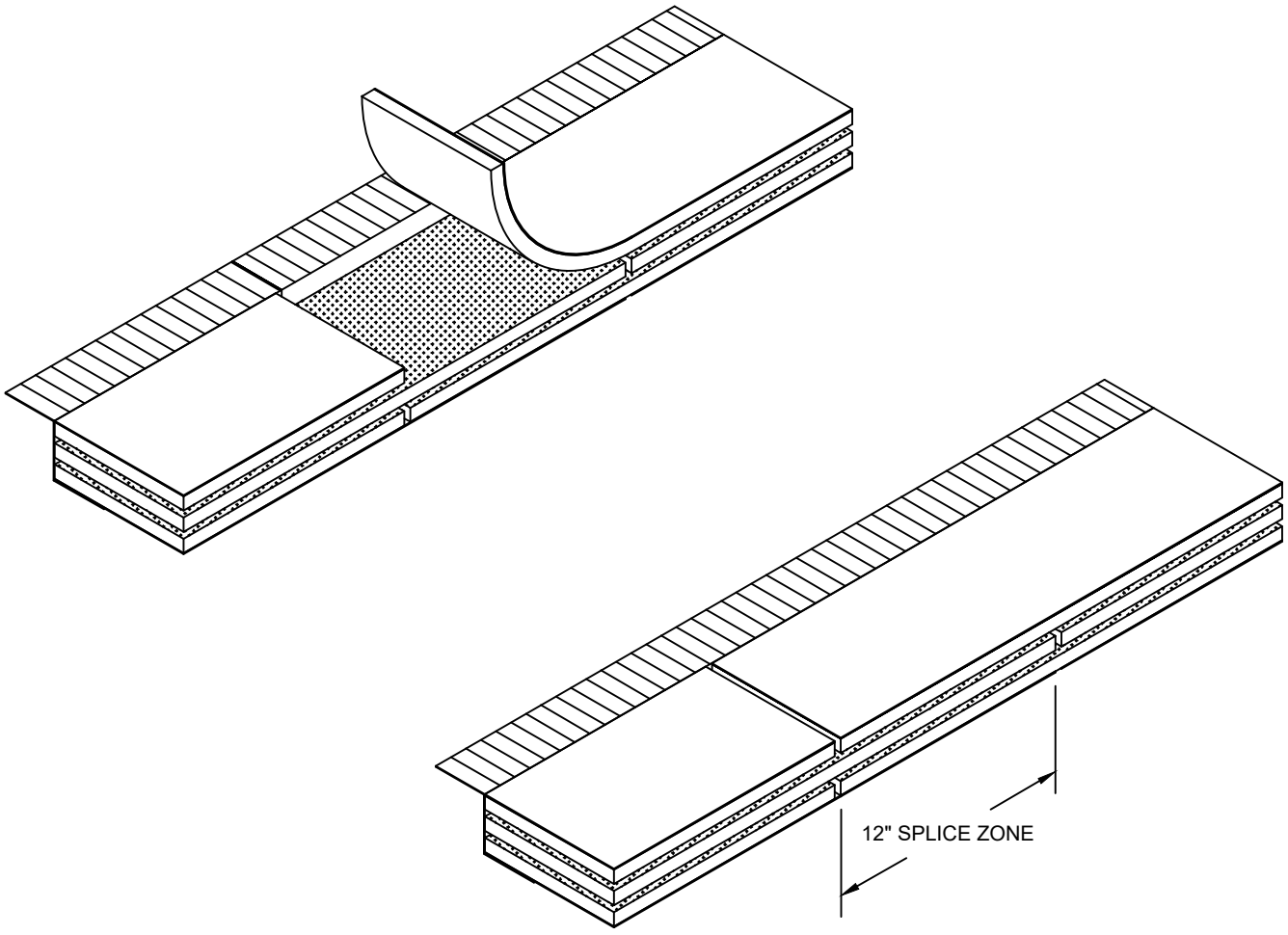


Fig. 6

SPLICING INSTRUCTIONS

STEP 4

Pin the four corners of the splice zone together, through the insulation and the foils (See Figs. 7 & 8).
Place six equally spaced pins down the center of the splice zone, through the insulation and through all foil layers (See Figs. 7 & 9).
Inspect the splice to ensure:

a. The splice does not have any gaps.
b. The splice is tied together with pins, down the center line, and at the corners.

After the splice has passed inspection, lay the scraps over the splice. These scraps were saved for future use during the completion of Step 2 and should now be laid in over the splice for added thermal protection in a horizontal installation .

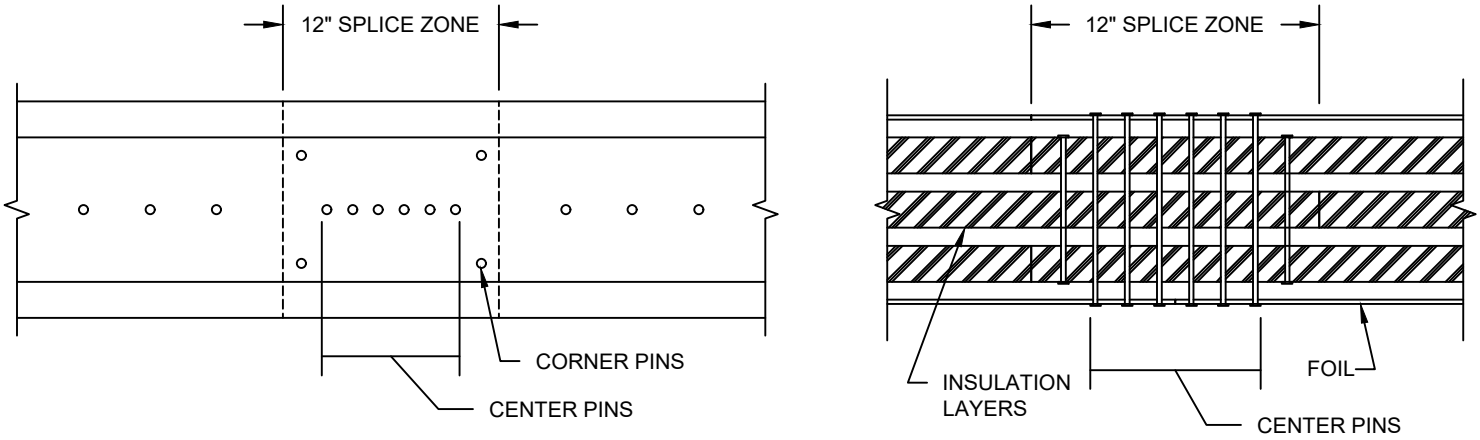


Fig. 7
Assembly of the Splice

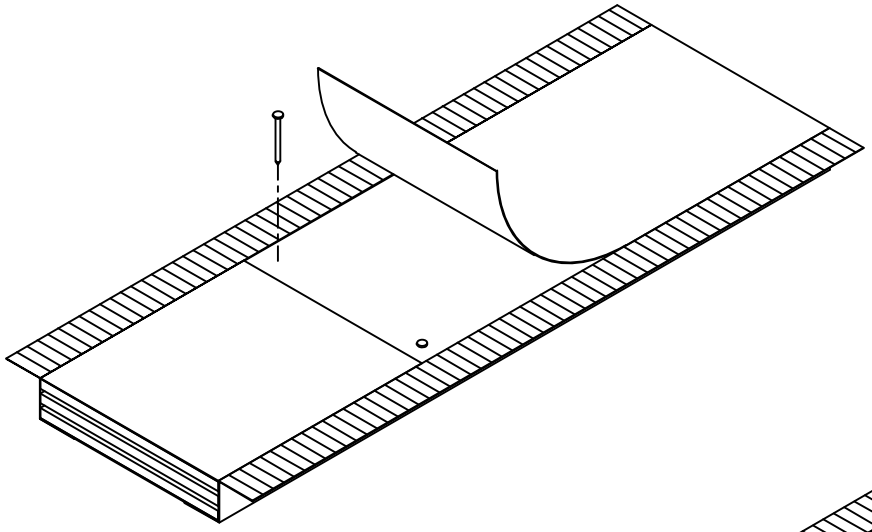


Fig. 8

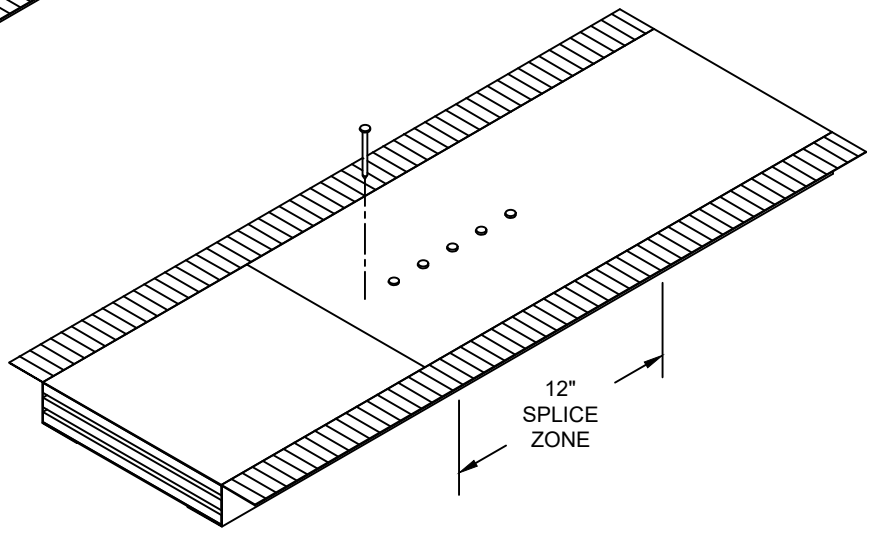
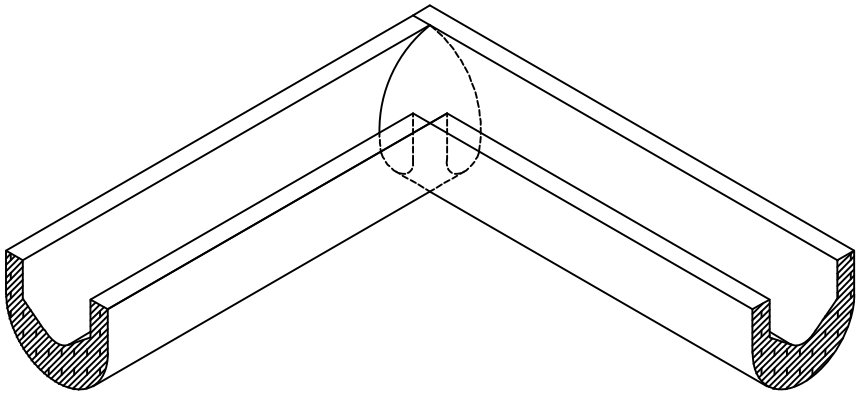
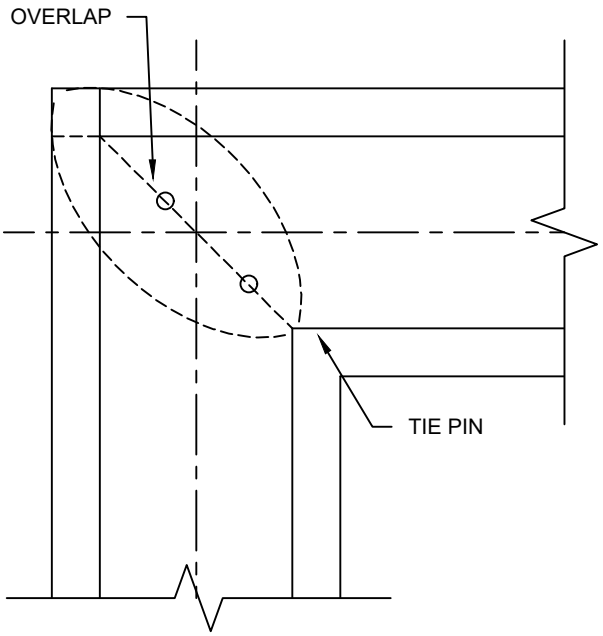


Fig. 9

90° INTERSECTION SPLICE

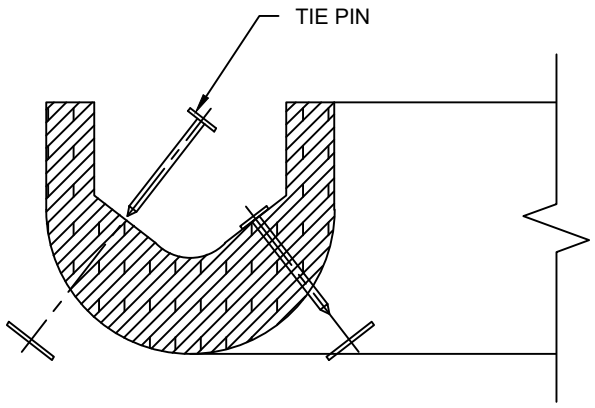


ISOMETRIC VIEW



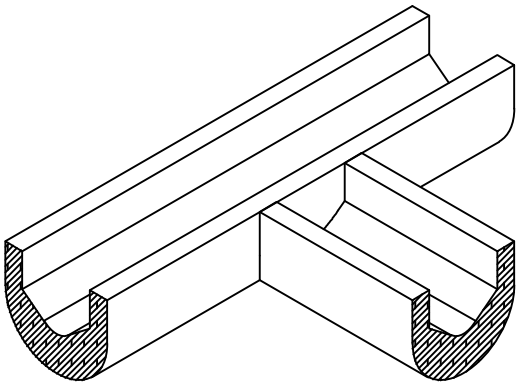
PLAN VIEW

*** NOTE: SEE SPLICING INSTRUCTIONS 12ET FOR MFX FIRE BARRIER 90° CORNER SPLICE



ELEVATION

"T" INTERSECTION SPLICE



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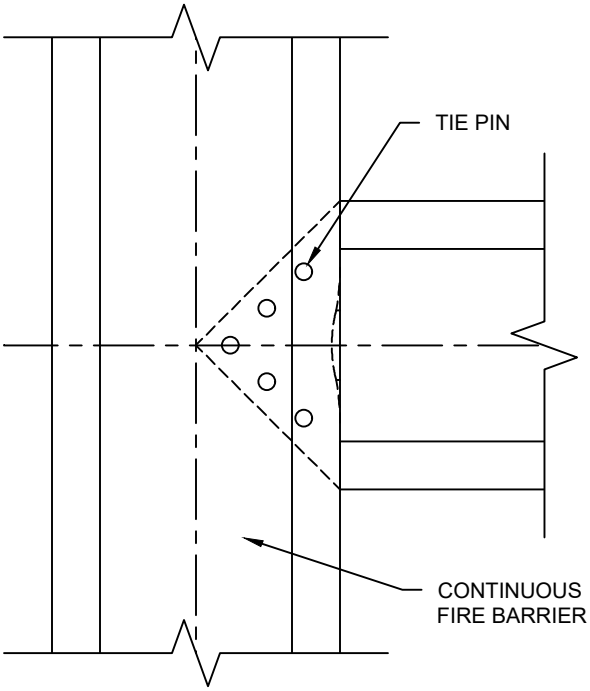
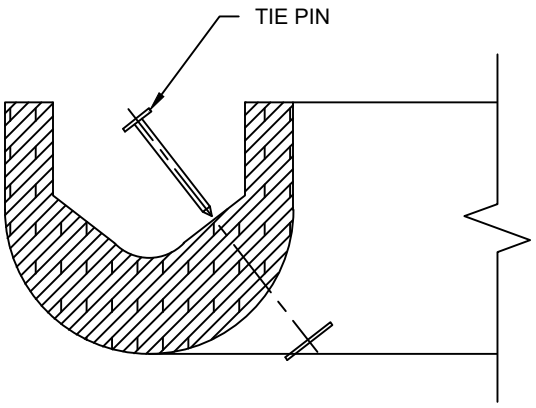
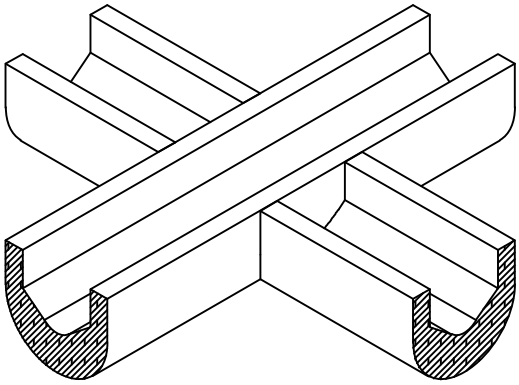


PLAN VIEW



ELEVATION

4 WAY INTERSECTION SPLICE



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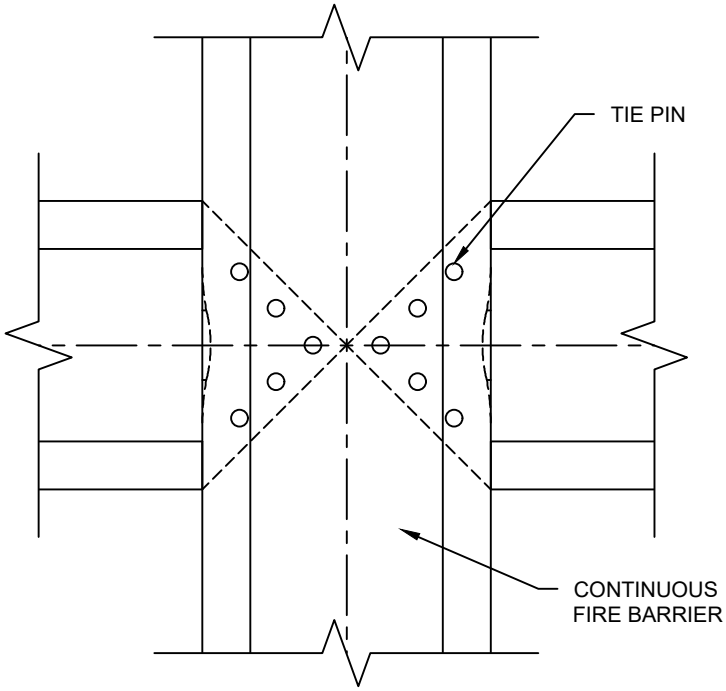
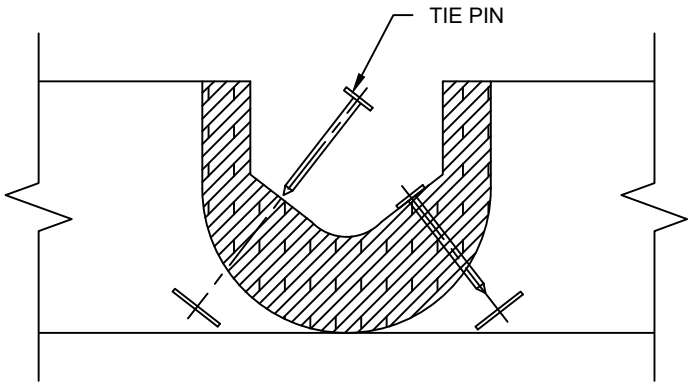


PLAN VIEW



ELEVATION

CORRIDOR WRAP SPLICING DETAIL