



A CSW Industrials Company

INSTALLATION INSTRUCTIONS

Metaflex Pro Horizontal 90° Transition



IMPORTANT

The following 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. This is a finished product.

Store this product in a protected area. Do not stack anything on top of this product.

Review approved Balco shop drawings for types and locations prior to beginning work.

RECOMMENDED TOOLS

TAPE MEASURE / UTILITY KNIFE / SNAP-BLADE UTILITY KNIFE / SNIPS OR CUTOFF WHEEL AND GRINDER
SPREADER CLAMPS OR WOOD BLOCKING / DRILL / DRILL BITS FOR METAL AND CONCRETE
IMPACT DRIVER AND BITS / CAULKING GUN / PERMANENT MARKER

IMPORTANT

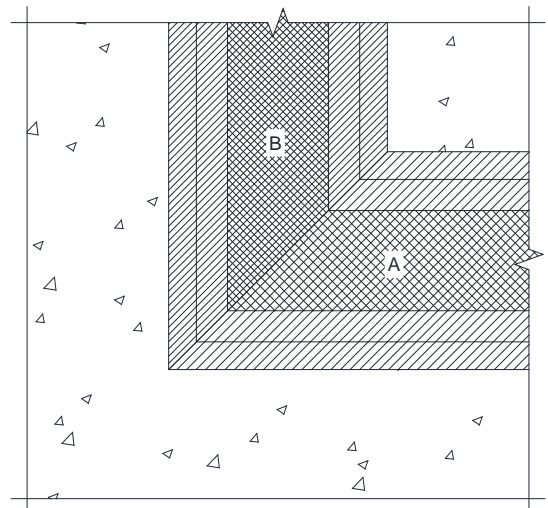
Metaflex Pro® Fire Barrier has sharp edges.

Balco recommends that installers wear gloves, safety glasses, long sleeve work shirts and long work pants when working with or installing Metaflex Pro® Fire Barrier.

STEP ONE

Install fire barrier per standard installation. Work towards the transition. The 'female' piece will be cut from fire barrier section A and the 'male' piece will be cut from fire barrier section B to allow for transition. Use a snap-blade utility knife to cut ceramic blanket material.

Note: Retain all cut off ceramic blanket material for later use.



METAFLEX PRO HORIZONTAL 90° TRANSITION

STEP TWO

Install both fire barrier sections in joint for the purpose of measuring and marking. Do not anchor.

Measure the joint width from the cut ends of the two fire barrier sections and mark using a permanent marker. (Fig. 1)

From the mark, measure a 45° angle, as shown. (Fig. 2)

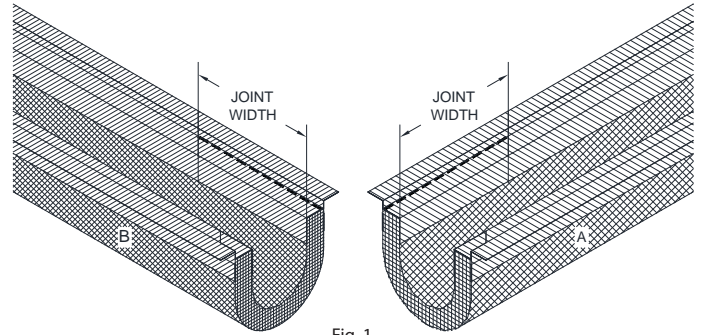


Fig. 1

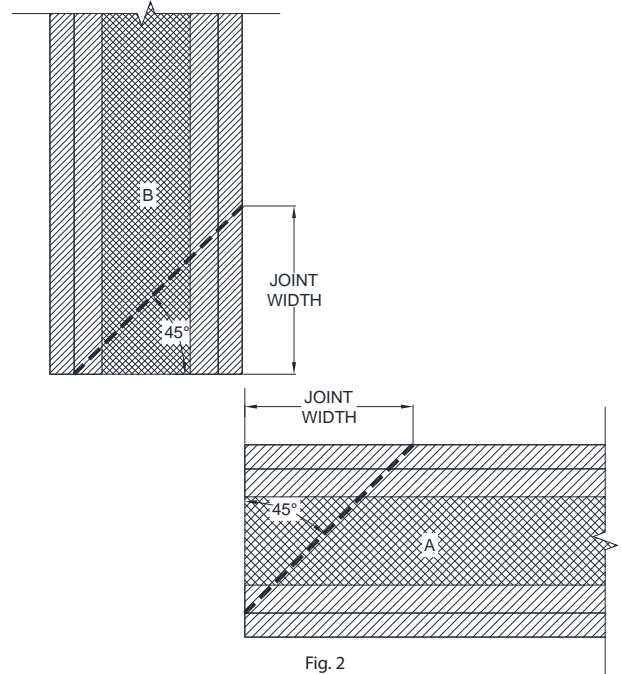


Fig. 2

STEP THREE

Remove the fire barrier sections from the joint.

Cut the flanges along marked 45° angle using a pair of snips or a cutoff wheel in a grinder. (Fig. 3)

Cut the ceramic blanket material along marked 45° angle using a snap-blade utility knife. (Fig. 4)

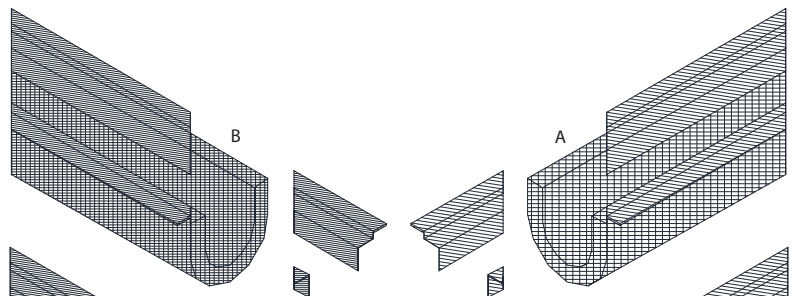


Fig. 3

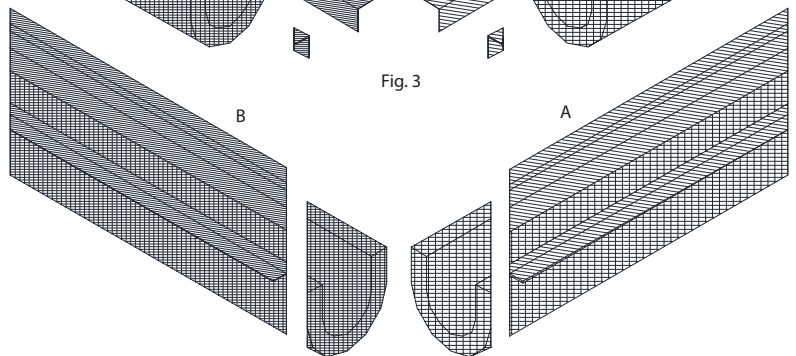


Fig. 4

METAFLEX PRO HORIZONTAL 90° TRANSITION

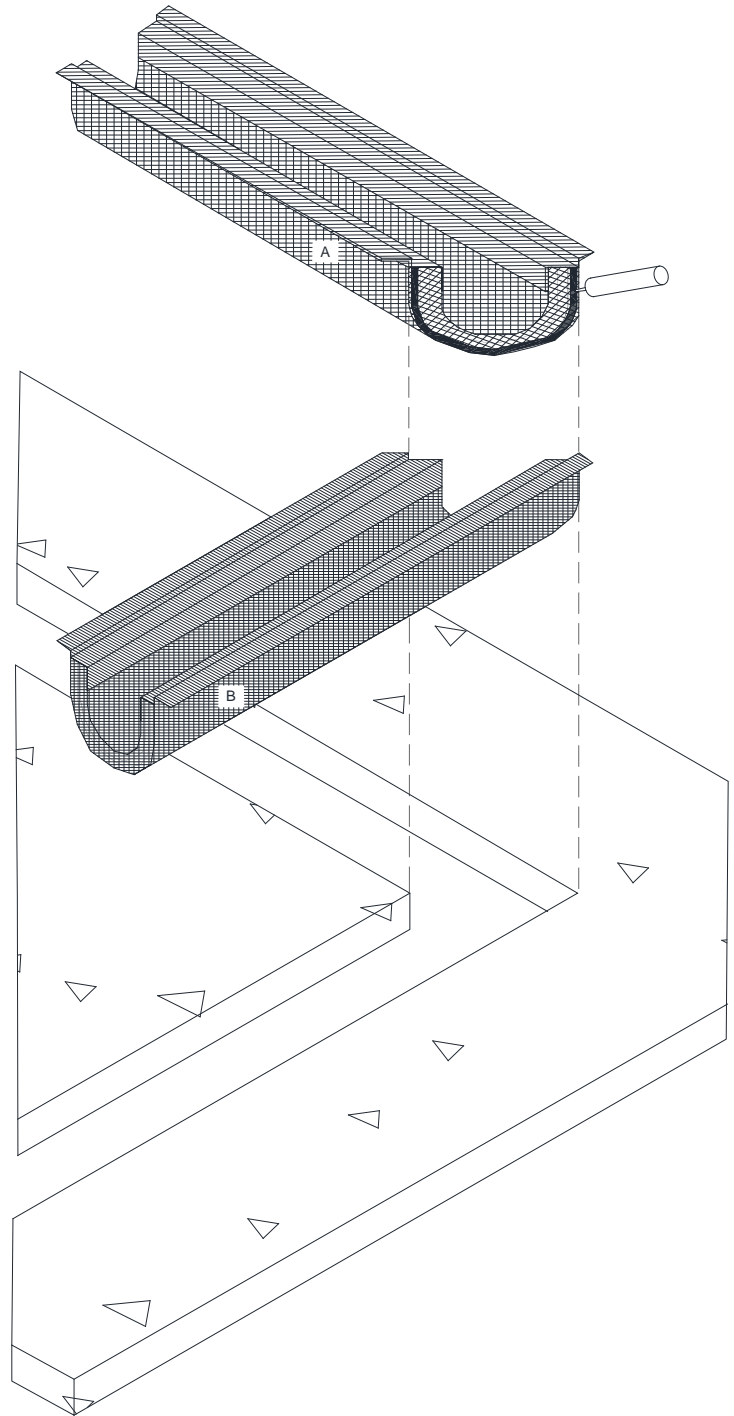
STEP FOUR

Apply a 3/8" bead of factory-supplied sealant to the exposed surface of the bottom ceramic blanket layer on both fire barrier sections and install into joint space.

Tightly join the two fire barrier sections.

Use spreader clamps to pin the terminating fire barrier firmly against the inner face of the joint opening.

Fasten with the provided anchors.



METAFLX PRO HORIZONTAL 90° TRANSITION

STEP FIVE

Select ceramic blanket material cut off to be inserted between the ceramic blanket layers of the fire barriers.

Using a snap-blade utility knife, cut to length and width of the joint.

Pull back the top layer of stainless steel foil and the top 2 layers** of ceramic blanket material, exposing the bottom layers. (Fig. 5)

Apply a 3/8" bead of factory-supplied sealant to the exposed surface of the bottom ceramic blanket layers. (Fig. 6)

Insert the cut off ceramic blanket material and push down firmly to ensure adherence of the sealant. (Fig. 7)

For larger joint sizes, inserted cut off ceramic blanket material will be rectangular to cover as much of the transition seam as possible (Fig. 8). Push down firmly to ensure adherence of the sealant.

**2 LAYERS FOR A 3 LAYER SYSTEM
1 LAYER FOR A 2 LAYER SYSTEM

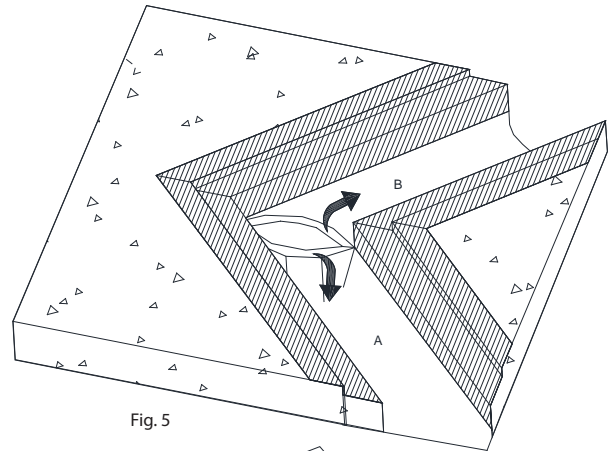


Fig. 5

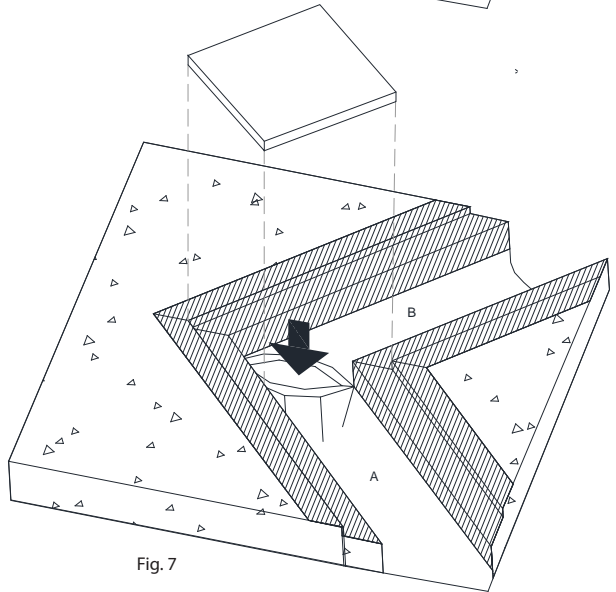


Fig. 7

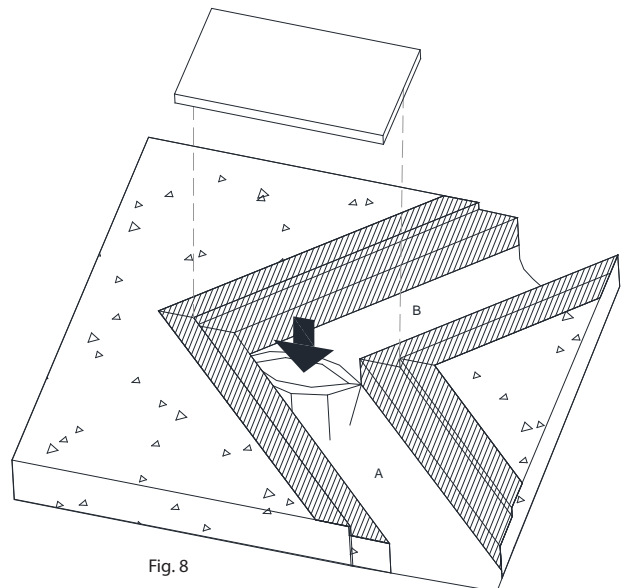


Fig. 8

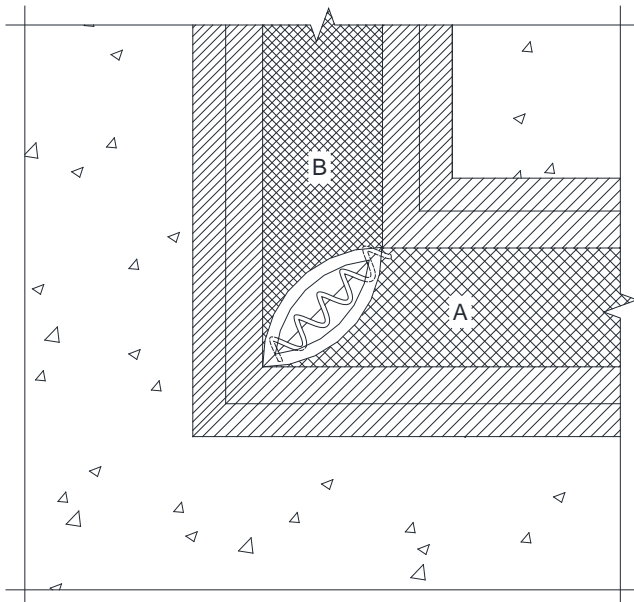


Fig. 6

METAFLX PRO HORIZONTAL 90° TRANSITION

STEP SIX

Apply a bead of factory-supplied sealant to the top of the inserted cut off ceramic blanket material.

For 2 Layer System: (Fig. 9)

Cover the inserted piece of ceramic blanket material with the top layer of ceramic blanket material.
Press down on all ceramic blanket layers firmly.

Cover with the top stainless steel foil layer. Proceed to Step 7.

For 3 Layer System: (Fig 10)

Cover the inserted cut off piece with the next layer of ceramic blanket material.

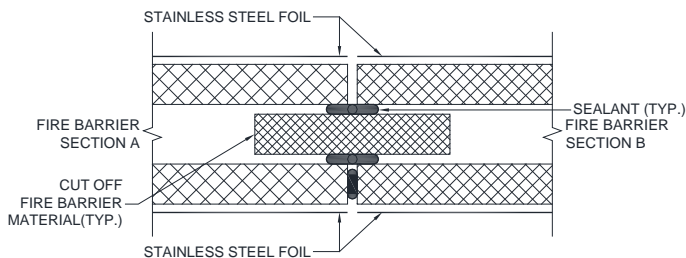
Apply a bead of factory-supplied sealant to the next exposed surface layer of ceramic blanket material.

Insert second cut off piece of ceramic blanket material.

Apply a bead of factory-supplied sealant to the top of the inserted cut off ceramic blanket.

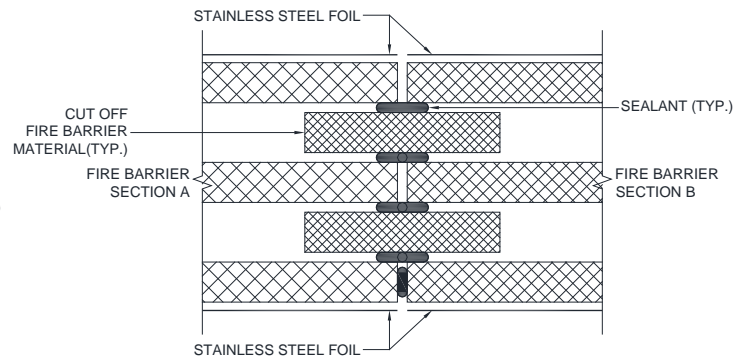
Cover the inserted piece of fire barrier material with the top layer of ceramic blanket material. Press down on all ceramic blanket layers firmly.

Cover with the top stainless steel foil layer.



2 LAYER FIRE BARRIER SYSTEM

Fig. 9



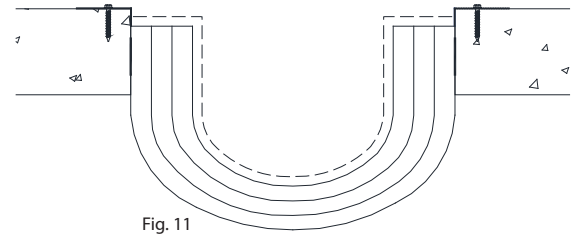
3 LAYER FIRE BARRIER SYSTEM

Fig. 10

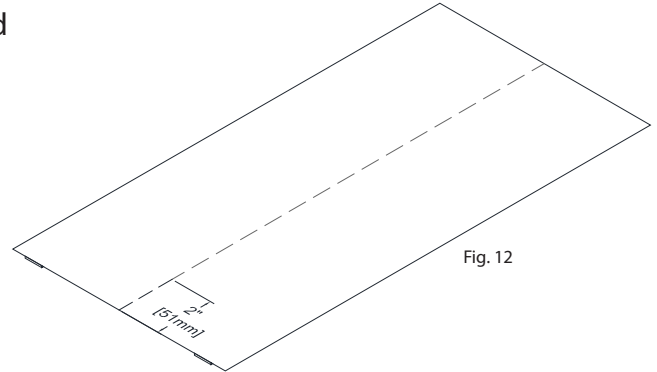
METAFLX PRO HORIZONTAL 90° TRANSITION

STEP SEVEN

Select the rolled splice patch, unroll and measure the length to cut by inserting into the cavity from the flange to flange. Use a pair of snips to cut the splice material to length. (Fig. 11)



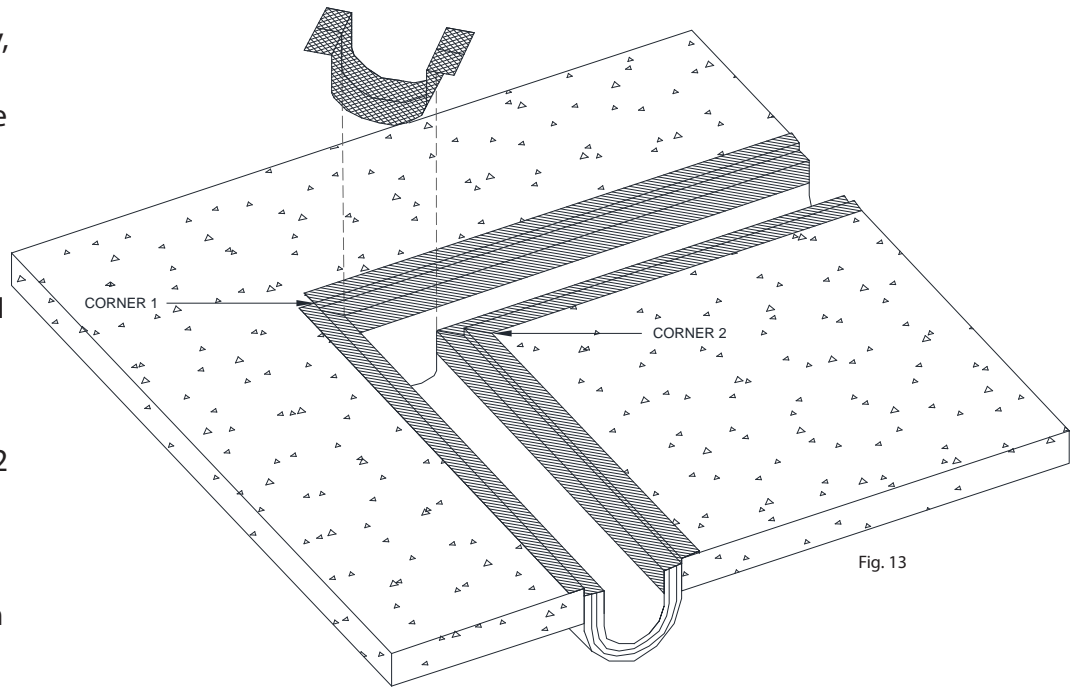
Fold the splice patch in half along the width of the material and return flat, creating a crease in the middle of the splice patch. (Fig. 12)



Cut a 2" slit along the center crease of splice patch on the end intended for corner 1. (Fig.12)

Do not peel the backing from the adhesive tape of the splice patch at this time.

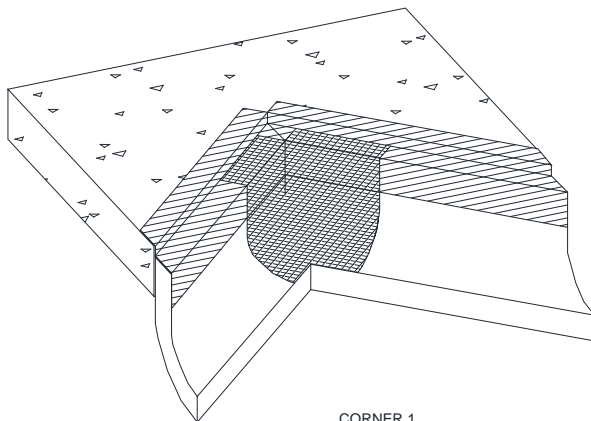
Insert foil patch inside the cavity, and form to the interior of the cavity, aligning the center crease of the splice patch with the transition seam of the fire barriers. (Fig. 13)



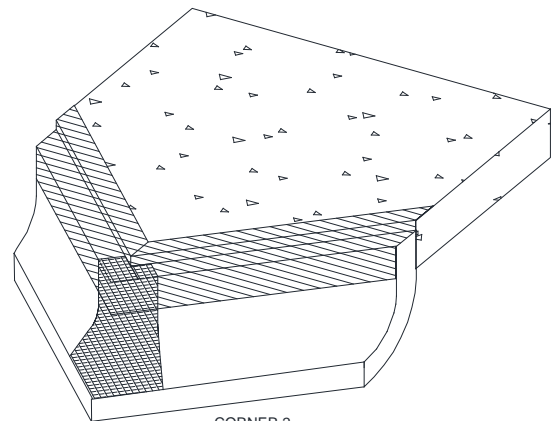
Form foil splice patch to corner 1 as shown, folding it to ensure a tight fit. (Fig. 14)

Form foil splice patch to corner 2 as shown, folding it to ensure a tight fit. (Fig. 15)

Remove the formed splice patch from the fire barrier cavity.



CORNER 1
Fig. 14



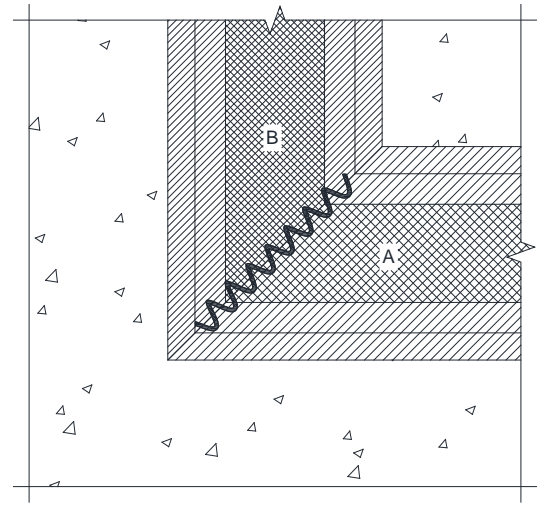
CORNER 2
Fig. 15

METAFLEX PRO HORIZONTAL 90° TRANSITION

STEP EIGHT

Select the factory-supplied sealant.

Apply a 3/8" bead of factory-supplied sealant in a zig-zag pattern at a nominal 2" (51mm) from crest to crest, along the seam of the transition inside of the joining fire barrier cavities, at a 3" width.



STEP NINE

Select the formed foil splice patch.

Peel the backing from the adhesive tape of the splice patch.

Carefully insert the splice patch, centering the crease with the seam of the transition, maintaining the formed shape of the patch.

Conform the patch to the interior of fire barrier cavity and to the corners of flanges to ensure a tight seal.

Smooth the splice patch down onto the barrier, applying firm pressure to the adhesive tape and spreading the sealant.

Using 2" foil tape (by others), tape along the inner flange at corner 1 where the transition seam is exposed. (Fig. 16)

Using 2" foil tape (by others), tape along any rips or tears that may have occurred during the layering process.

