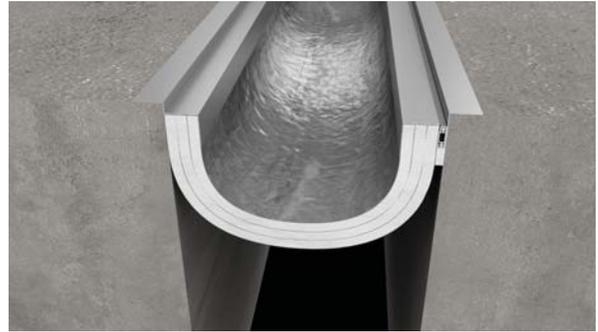


## INSTALLATION INSTRUCTIONS

### MetaFlex® Pro Shear Floor Expansion Joint Fire Barrier



#### 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 / SNIPS / METAL-CUTTING SAW OR CUTOFF WHEEL AND GRINDER / SPREADER CLAMPS OR WOOD BLOCKING  
DRILL / DRILL BITS FOR METAL AND CONCRETE / IMPACT DRIVER AND BITS / CAULKING GUN

#### IMPORTANT

MetaFlex® Pro Fire Barrier has sharp edges.

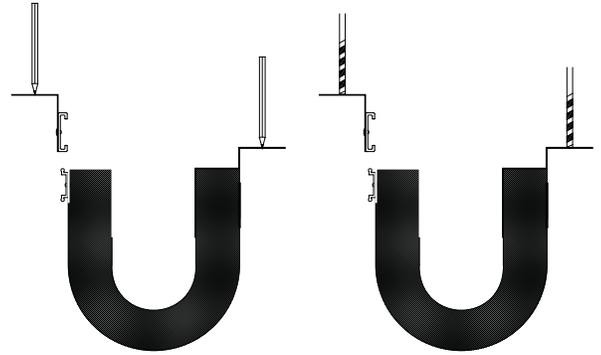
Balco recommends that installers wear work gloves, safety glasses, long sleeve work shirts and long work pants when working with or installing MetaFlex® Pro Fire Barrier.

# METAFLX® PRO SHEAR FLOOR EXPANSION JOINT FIRE BARRIER

## STEP ONE

If the flanges have not been drilled at the factory, mark and drill them at this time per Balco approved details or shop drawings.

Take care to match the anchor holes in the fire barrier with any anchorage of accompanying expansion joint cover system to be installed in conjunction with the MetaFlex® Pro fire barrier.

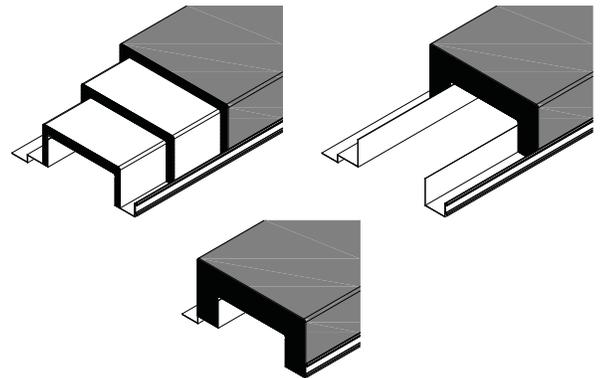


## STEP TWO

Select the first section of fire barrier to be installed. Work from one end of the joint line to the other.

Using a utility knife and a sharp blade, carefully cut the ceramic blanket and foil from the 'Male' end of the fire barrier off to create a flat end.

Using a pair of snips and a metal cutting saw or a cutoff wheel in a grinder, trim the flanges to match the flat end of barrier.



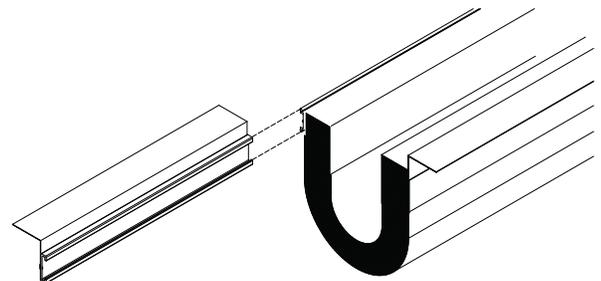
## STEP THREE

Install the female shear flange onto each section of fire barrier to be installed, as shown.

The female flange will stick out from the male flange of the barrier cut in **STEP TWO**. This offset will aid in aligning adjacent sections of fire barrier.

## BALCO RECOMMENDS

Apply a small amount of spray white lithium grease to the female shear track to aid in assembly of the shear flanges.



# METAFLEX® PRO SHEAR FLOOR EXPANSION JOINT FIRE BARRIER

## STEP FOUR

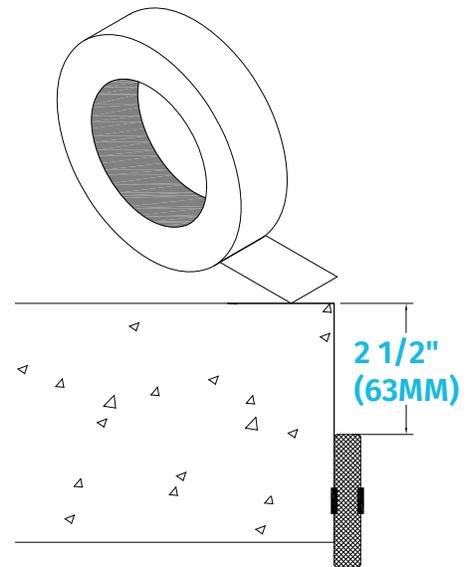
Measure and mark a line inside the joint face, 2 1/2" (63mm) down from the top of the concrete slab.

Select the provided filler strip.

Place the filler strip inside the joint so that the top edge of the strip aligns with the line.

Secure the filler strip to the top of the concrete slab by applying tape to the stainless steel ribbons.

Repeat until all filler strips are installed.

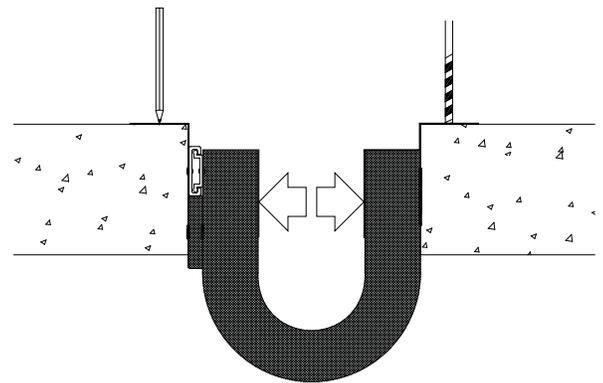


## STEP FIVE

Place the fire barrier in its installed position within the joint opening.

Use spreader clamps or blocking to pin the barrier firmly against the inner face of the joint opening.

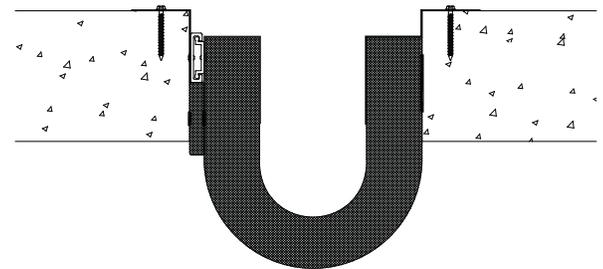
Using the galvanized flanges as a template, drill the anchor holes at the marked locations. Remove all dust and debris from the anchor holes and blockouts.



## STEP SIX

Fasten the fire barrier and any expansion joint cover components using the supplied anchors.

Remove the spreader clamps or blocking once all anchors are in place.

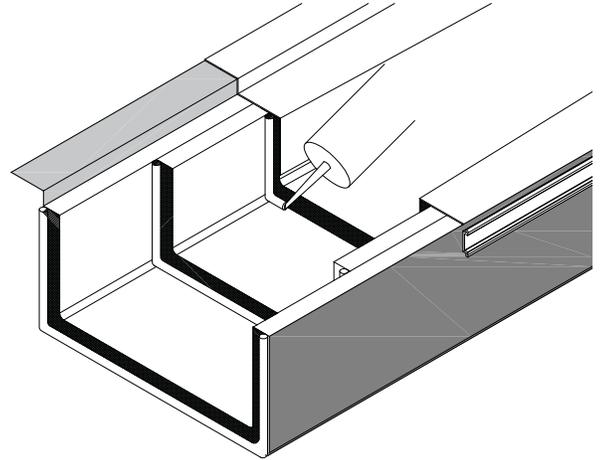


# METAFLEX® PRO SHEAR FLOOR EXPANSION JOINT FIRE BARRIER

## STEP SEVEN

Move to the 'Female' end of the installed section of fire barrier.

Select the factory provided sealant and apply a 3/8" (10mm) bead at the interface of each blanket layer.



## STEP EIGHT

Select the next section of fire barrier to be installed.

Place the fire barrier in its installed location within the joint opening, sliding the male shear flange into the installed female shear track and tightly butting the male end of the barrier with the female end of the installed barrier.

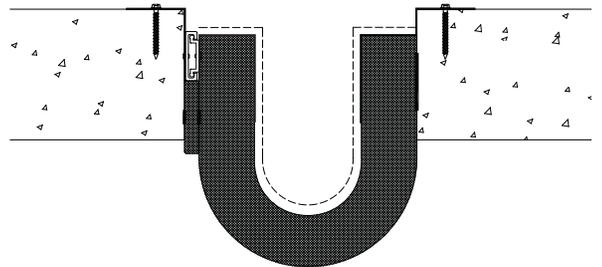
Repeat **STEPS FOUR THROUGH SIX** to fasten the barrier in place.

## BALCO RECOMMENDS:

Lift the fixed flange of the barrier up to allow the barrier to slide on the installed barrier without dragging. Once the barriers are within 1/2" (13mm), allow the barriers to contact while tightly butting the seams together.

## STEP NINE

Measure the exposed length of fire barrier at the splice line as shown and record.



# METAFLEX® PRO SHEAR FLOOR EXPANSION JOINT FIRE BARRIER

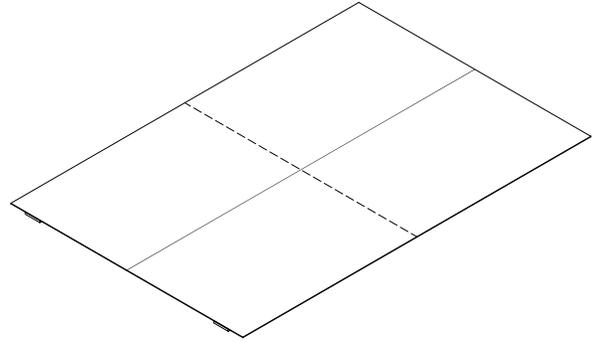
## STEP TEN

Select the rolled splice patch material and unroll a length equal to the measurement taken in **STEP SEVEN**.

Use a pair of snips to cut the splice patch material to length.

On the bare side of the splice patch, a center line across the length of the material.

Fold the splice patch in half along the width of the material and return to flat, creating a crease in the middle of the splice patch.

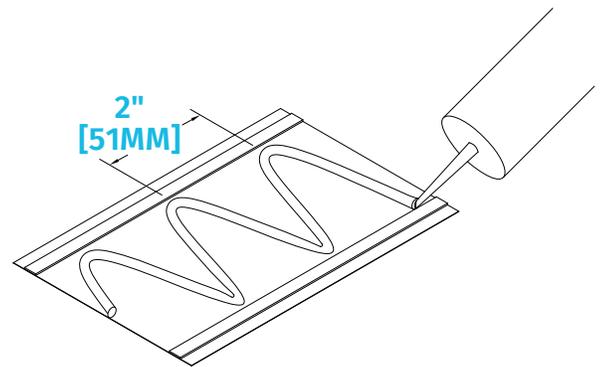


## STEP ELEVEN

Select the factory provided sealant and the splice patch.

Apply a 3/8" bead of sealant to the underside of the splice patch.

Apply the sealant in a zig-zag pattern at a nominal 2" (51mm) from crest to crest, along the full length and width of the splice patch.

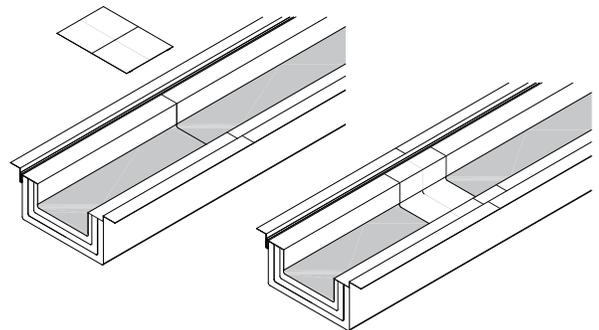


## STEP TWELVE

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

Carefully center the splice patch on the splice line and place it onto the fire barrier, centering it in both directions with the fire barrier and the line of the splice.

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



# METAFLEX® PRO SHEAR FLOOR EXPANSION JOINT FIRE BARRIER

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## STEP THIRTEEN

Repeat **STEPS THREE THROUGH TWELVE** until all fire barrier sections are installed.

When installing MetaFlex® Pro fire barrier in multiple, non-adjacent joint lines, always start the next 'run' of fire barrier with the off-cut from the previous 'run' of fire barrier.

Complete fire barrier transitions per factory-provided details.

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

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