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**INSTALLATION INSTRUCTIONS  
FOR**

**MICHAEL RIZZA™  
INTERIOR IS SERIES  
IS-2 through IS-5  
AND  
EXTERIOR EV SERIES  
EV-2 through EV-5  
SILICONE EXPANSION JOINT  
COVER SYSTEMS**

**IMPORTANT  
READ THE FOLLOWING BEFORE INSTALLING**

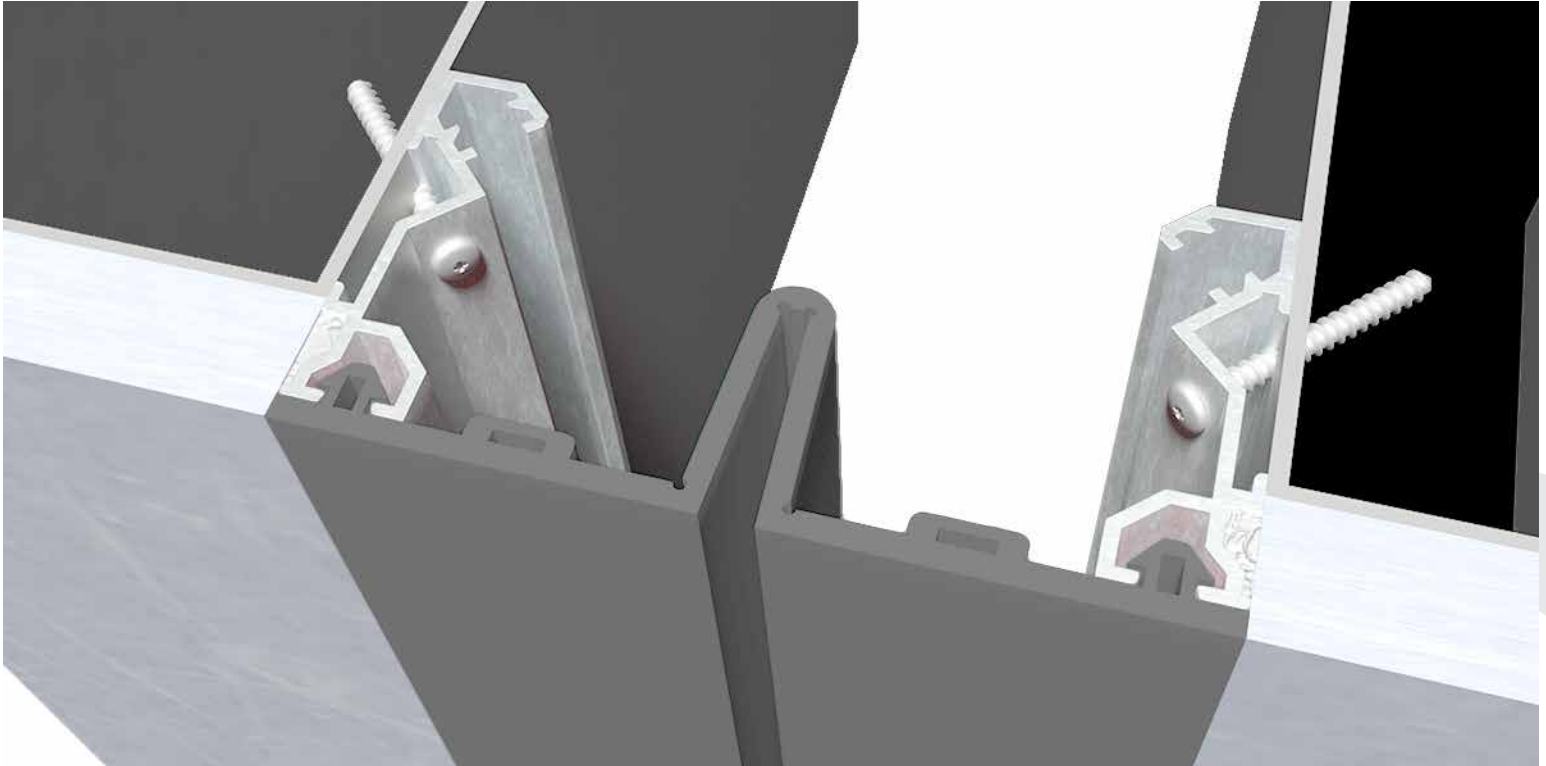
Read the following installation instructions carefully, and be sure you understand them completely before you begin any work. Please note that these installation instructions are for standard installations and are not intended to replace any specific details or shop drawings that differ from those depicted.



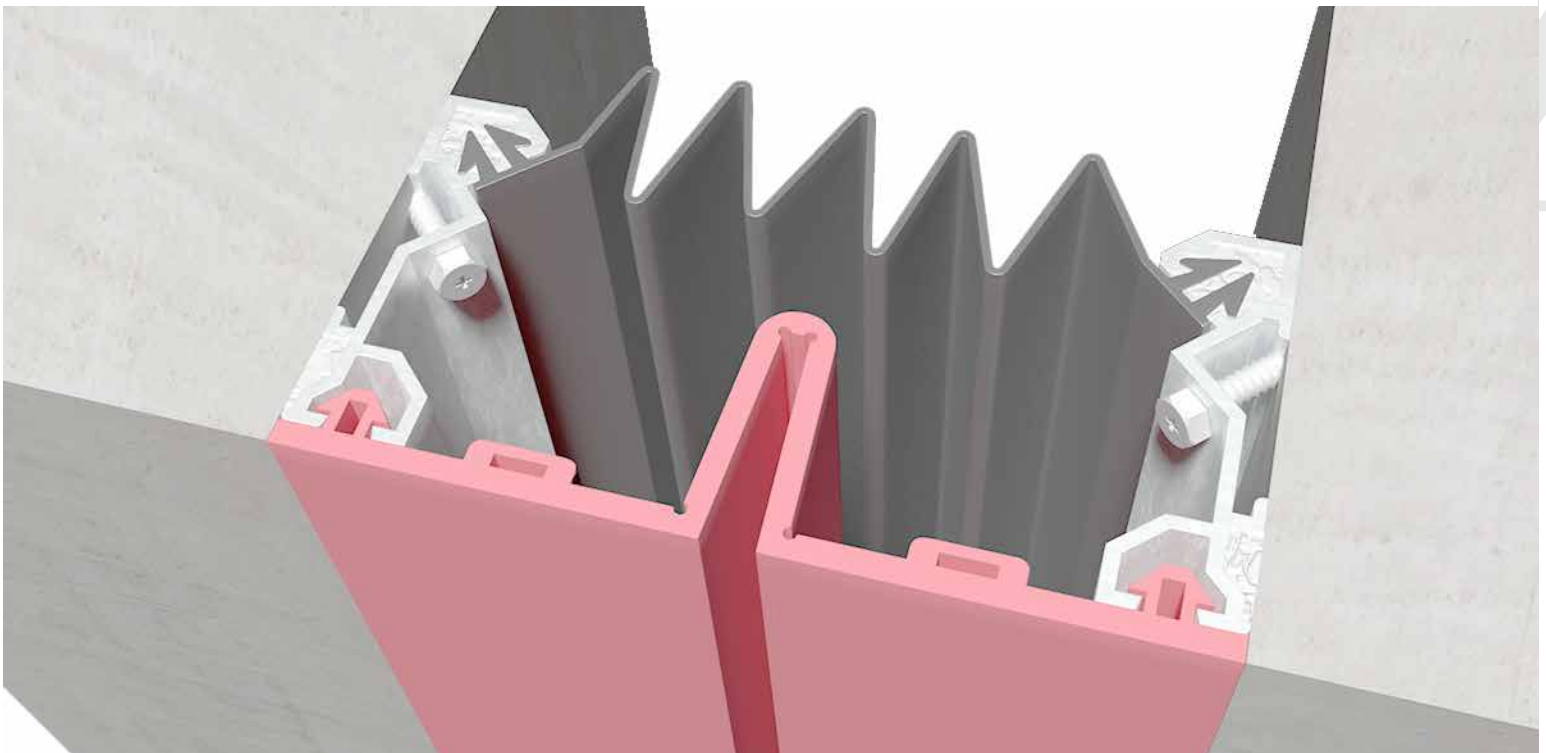


# INSTALLATION INSTRUCTIONS FOR RIZZA™ IS-2 through IS-5 AND EV-2 through EV-5 SYSTEMS

These installation instructions are for use in the installation of the Rizza™ IS Series—IS-2 through IS-5 and EV Series—EV-2 through EV-5 systems (Figures 1 and 2).



**Figure 1—IS Series Expansion Joint System on an Interior Wall**



**Figure 2—EV Series Expansion Joint System on an Exterior Wall**



# INSTALLATION INSTRUCTIONS FOR RIZZA™ IS-2 through IS-5 AND EV-2 through EV-5 SYSTEMS

## STORAGE

These expansion joint systems are shipped unassembled. Store these products in a fully supported horizontal position and in a clean, dry location that is within the temperature range of 60–80°F (15.56–26.67°C).

### CAUTION

For items that are uncured, refer to packaging instructions for MSDS information and storage requirements.

## PROCEDURES

### PRE-INSTALLATION

Review all approved shop drawings for types and locations.

### PARTS

- Silicone Face Seal
- Aluminum Base Members
- Base Member Anchors
- Back Seal (EV Series only)

### TOOLS REQUIRED

This is a list of tools and materials recommended for use in the installation of these joint systems. Balco, Inc. does not provide these tools and materials.

- Drill Bits for Base Members (Metal)
- Drill Bits for Concrete (As needed)
- Power Drill/ Hammer Drill
- Phillips Head Screwdrivers
- Wallpaper Roller (1/2")
- Miter Box
- Utility Knife
- Hacksaw or Chop Saw
- Sealant (For splices and transitions)  
 Dow 795 (preferred) or Dow 790
- Adhesive/Sealant (Corner installation only)  
 Balco, Inc. recommends Sikaflex 1a

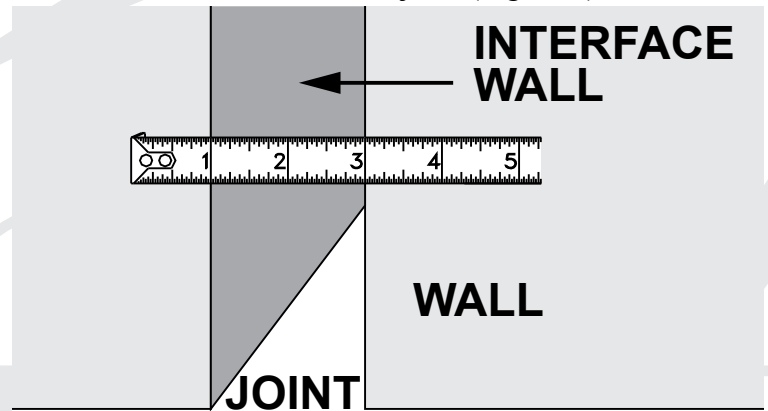
### CAUTION

Work area must be well ventilated.

### SURFACE PREP

Ensure the joint opening is formed to a uniform width for the entire length of the joint.

1. Test all concrete in and around the joint by tapping the areas with a hammer. If the concrete sounds hollow, cracks, crumbles, or loosens, the concrete must be removed and repaired with a structural repair mortar.
2. Use concrete saws and diamond grinding disks to correct any deviation within the joint.
3. Access to the bonding surface of the interface walls must be free and clear of debris. Any obstructions must be accounted for in the installation process.
4. Measure the joint opening and verify that you have the correct size for the joint (Figure 3).



**Figure 3—Measuring the Joint Size**

5. Clean the interface walls of the concrete using a 50/50 mixture of water and Isopropyl Alcohol to remove oil, grease, dirt, debris and other contaminants. Ensure the water/alcohol is completely dried from the cleaned surface prior to installation of the seal.

### NOTE

Joints in steel, aluminum or other non-porous surfaces should be primed in preparation for the sealant installation.



## SYSTEM INSTALLATION

### BASE MEMBER INSTALLATION

1. If not pre-drilled, mark the locations for the anchor holes on all of the base members and drill the anchor holes.
- 1a. **Corner Installations Only**— Only drill half of the base members provided.

#### NOTE

Standard anchor spacing is 20" o.c. with an anchor hole a maximum of 3" from each end of each extrusion section.

#### NOTE

If fire barrier is provided with the system, install it at this time. Refer to the installation instructions for the fire barrier type provided.

2. Place the base members in the proper installed position. Ensure that the base members are properly aligned, straight, and level.

#### NOTE

The front of the base member needs to be a minimum of 1/8" from the surface of the wall. This ensures that the seal will be flush with or recessed from the wall surface.

3. Using the base member as a template, mark the locations for the anchor holes on the substrate.
- 3a. **Corner Installation Only**— Mark the locations for the anchor holes on the wall adjacent to the corner.
4. Remove the base member and drill the anchor holes into the substrate.
5. Apply a continuous bead of silicone sealant to the back of the base member.
6. Place the base member back into its installed position and align the anchor holes with the holes in the substrate, ensuring that the base member is straight, level, and properly aligned.
7. Attach the base member with the anchors supplied by the manufacturer.

8. Repeat steps 2 through 7 for all remaining base members on both sides for the remaining run.

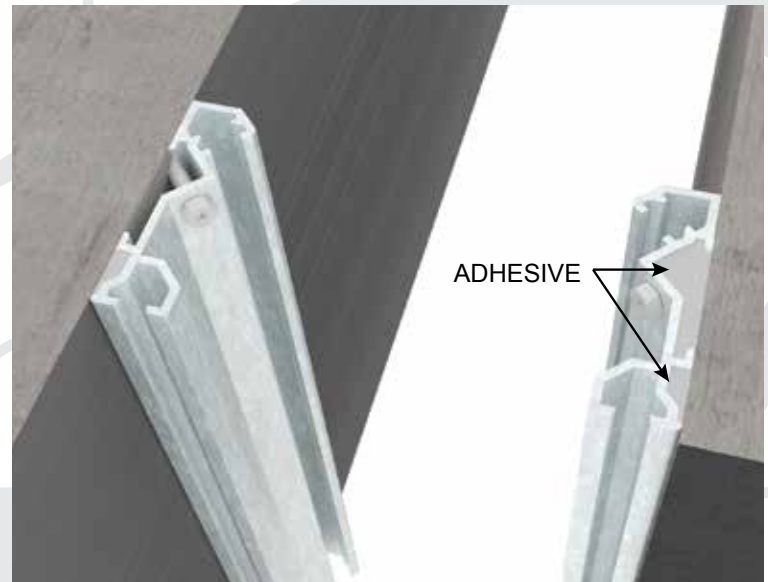
#### CAUTION

**EV Series Only**— Leave a 1/4" space between each base member to allow for the thermal expansion. Caulking should be added between each base member.

- 8a. **Corner Installations Only**— Repeat steps 2 through 7 for one side only. Refer to the Adhered Base Member section for the remaining side.

### ADHERED BASE MEMBER INSTALLATION (CORNER INSTALLATION ONLY)

1. Apply adhesive to the channels on the back of the base member on the corner wall (Figure 4).



**Figure 4—Corner Installation Base Member Adhesive Application**

#### NOTE

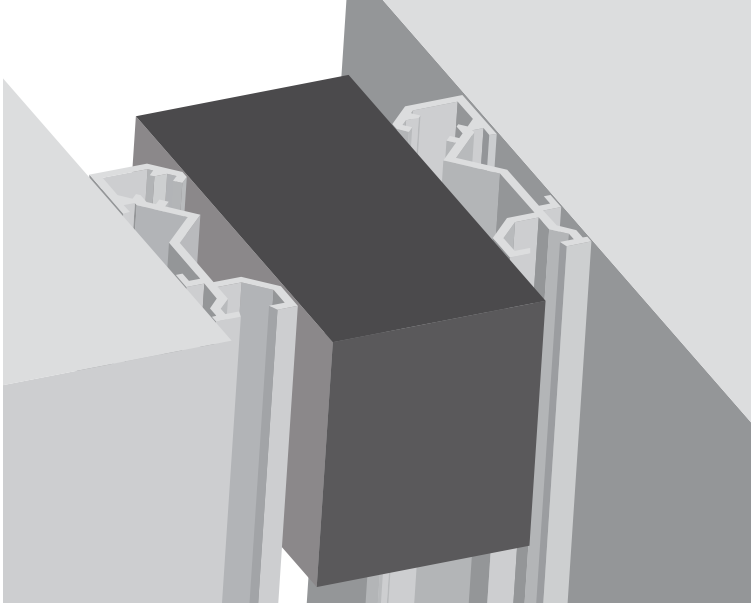
Suitability of the sealant/adhesive is determined by the capability of the product to bond aluminum to the substrate in most cases. Sikaflex 1a is recommended. Installer must verify the suitability.

2. Place the base member into its installed position. Ensure it is level, straight, and properly aligned with the other base member (Recessed 1/8" min. from the front).



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- Use the Styrofoam or similar material blocks spaced 36" o.c. to hold the base member in place until the adhesive cures (Figure 5).



**Figure 5—EV Series Temporary  
 Foam Block Placement**

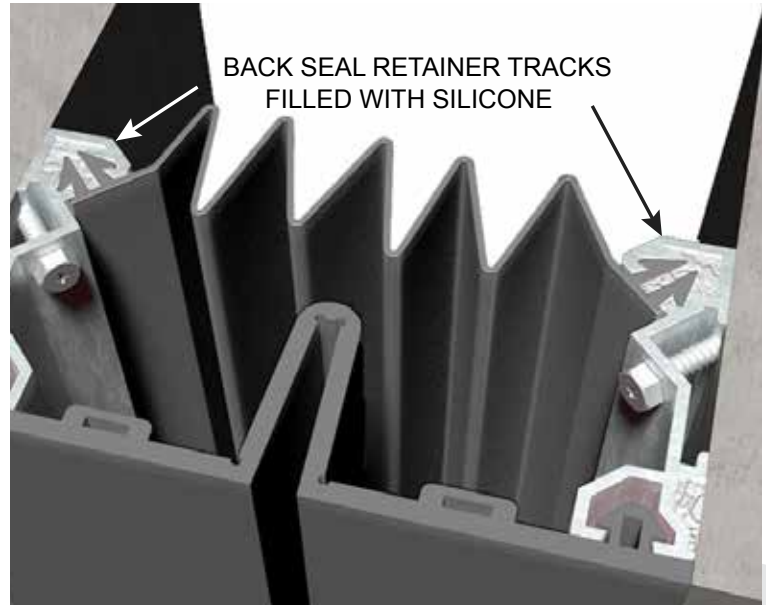
- Remove the blocks before continuing installation.
- Repeat steps 1 through 4 for all remaining base members.

### CAUTION

**EV Series Only**— Leave a 1/4" space between each base member to allow for thermal expansion. Caulking should be added between each member.

## BACK SEAL INSTALLATION (EV SERIES ONLY)

- Fill the back seal retainer tracks with silicone sealant (Figure 6).
- Measure 3" from the end of the back seal and place a mark. This excess seal will be folded up at the bottom towards the face seal of the joint in order to funnel water out of the building.
- Determine the length of the face seal required and mark the location.
- Cut the back seal using a Utility Knife.
- Insert the back seal's arrows into the corresponding base member's tracks from the bottom up.



**Figure 6—EV Series Back Seal  
 Silicone Application**

- Use a wallpaper roller to roll the arrows into the tracks continuously along the length of the seal.

## FACE SEAL INSTALLATION

- Determine the length of the face seal required for the installation. Mark the face seal at the location for cutting.
- Cut the seal using a miter box and hacksaw, ensuring that the cut is straight. Flood the miter box with water when cutting the seal.
- Insert the arrows of the face seal into the corresponding base member retainer track from the bottom up.
- Use a wallpaper roller to roll the arrow into the tracks continuously along the length of the face seal.

### NOTE

Lubricating the face seal's arrows with soapy water or liquid soap can make installation of the face seal easier.

### WARNING

**DO NOT USE OILS OR OIL BASED LUBRICANTS ON THE FACE SEAL ARROWS.**



## SPLICES AND TRANSITIONS

### NOTE

Splice kits are not supplied. Contact Balco, Inc. to order kits if necessary.

### Splicing

1. Trim the face seal sections using a miter box to ensure the ends are straight.
2. Insert one splice pin (supplied) halfway into each slot in one section of the face seal.
3. Apply a bead of caulk to the edge of the other seal section.
4. Align the seal sections with one another. Insert the other half of the splice pin into the splice slots in the sections of the face seal. Firmly press the sections together compressing the caulk and providing a seal at the splice (Figure 7).

### Transitions

1. Place the seal sections, one at a time, into the miter box and miter the sections so that they will mate with one another. Ensure that the mating edge of each seal is straight and at the proper miter.
  - 1a. **90° Same-Plane Turns Only**— Miter the edges of the sections into 45° angles so that they mate together into a 90° angle (Figure 8).
2. Bend supplied splice pins to the angle needed for the transition. Insert one splice pin in each slot in one section of the face seal halfway in.
3. Apply a bead of caulk to the edge of the other seal sections.
4. Insert the other half of the splice pin into the splice slots in the mating section. Press the sections of the seals together, firmly compressing the caulk and providing a seal at the transition (Figure 9).

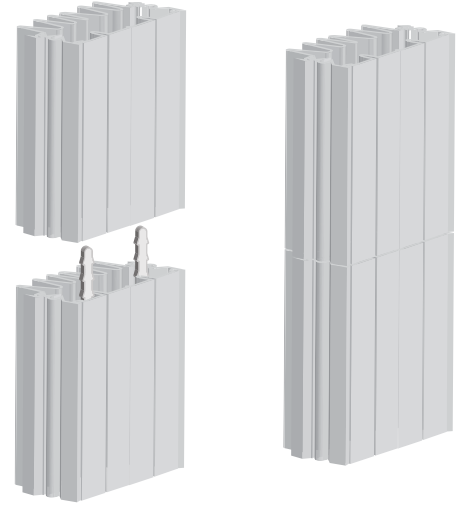


Figure 7—Sealing the Splices with Caulk

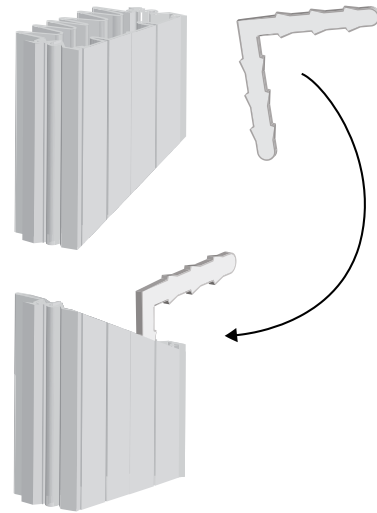


Figure 8—90° Same-Plane Transitions

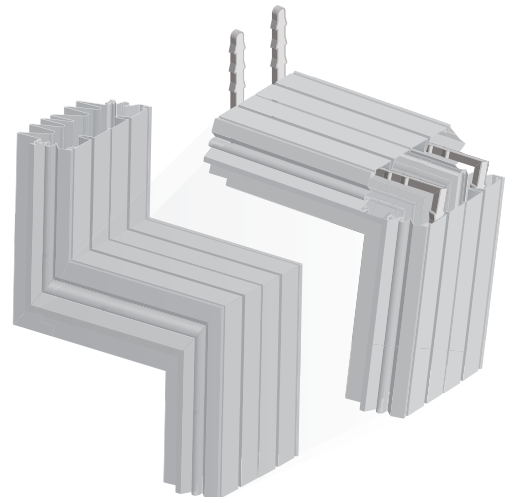


Figure 9—90° Co-Planar Transitions