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## **INSTALLATION INSTRUCTIONS FOR MICHAEL RIZZA™ RR AND RRg SERIES SILICONE EXPANSION JOINT COVERS**

### **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™ RR AND RRg SERIES EXPANSION JOINT COVERS

These installation instructions are for use in the installation of the Rizza™ RR and RRg series expansion joint covers (Figure 1).

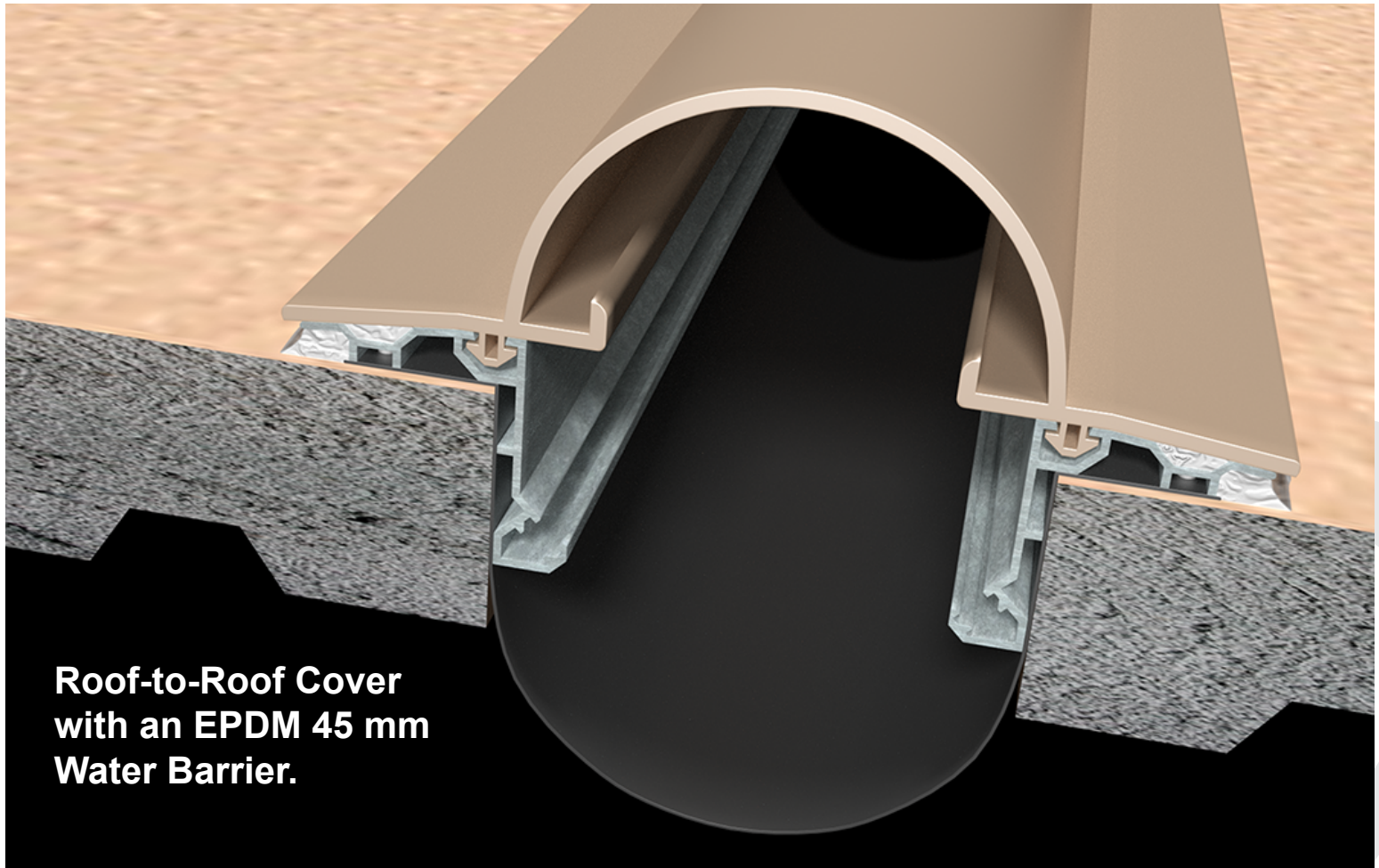


Figure 1—RRg Series Expansion Joint Cover

## STORAGE

These expansion joint covers are shipped unassembled. Store these products in a fully supported horizontal position and in a clean, dry location.

### 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

- Aluminum Base Members
- Base Member Anchors
- EPDM Water Barrier (RRg Only)
- Silicone Seal
- Back Seal (RR Only)



# INSTALLATION INSTRUCTIONS FOR RIZZA™ RR AND RRg SERIES EXPANSION JOINT COVERS

## 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 (if required)
- Electric Drill/ Hammer Drill
- Phillips and Hex Head Screw Drivers
- Markers
- Mastic (for EPDM Water Barrier)
- Caulking Gun
- Miter Box
- Hacksaw or Utility Knife (for cutting seal)
- Weatherproofing Sealant  
Dow 795 (preferred) or Dow 790

### CAUTION

Work area must be well ventilated.

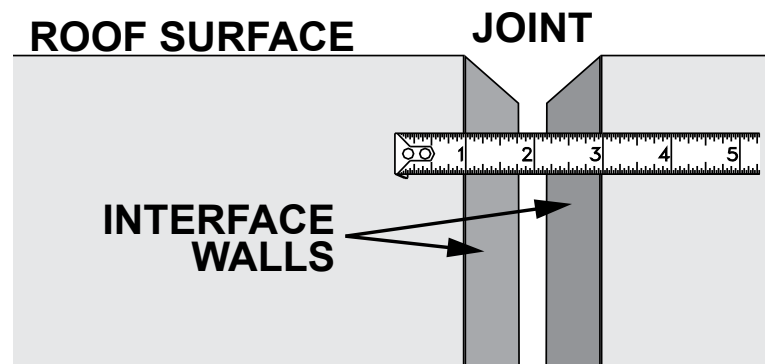
## SURFACE PREP

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 anchoring surface of the interface walls must be free and clear. 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 system (Figure 2).

### NOTE

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



**Figure 2—Measuring the Joint Size**

### NOTE

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

## BASE MEMBERS PREPARATION

1. Mark the locations for the anchor holes on the base members.

### NOTE

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

2. Drill the anchor holes into the base members at the marked locations.

## SYSTEM INSTALLATION

### RRg SERIES INSTALLATION ONLY

#### Water Barrier

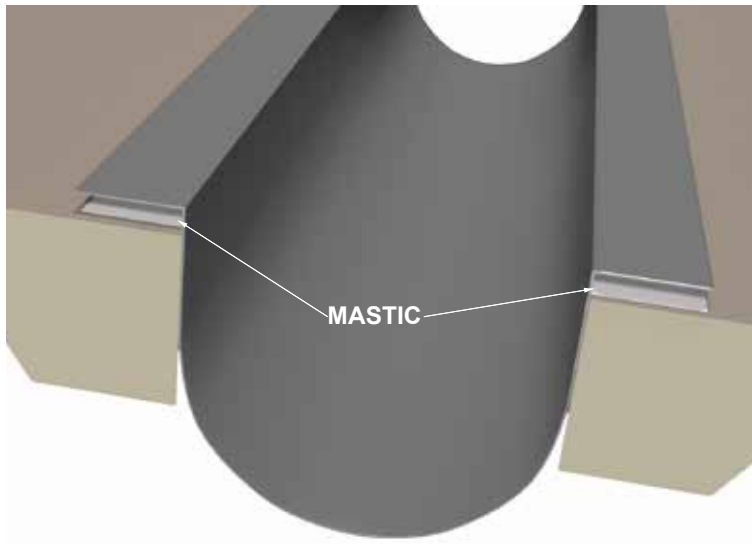
1. Spread non-curing mastic on the substrate on both sides of the joint where the EPDM water barrier will be in contact with the substrate (Figure 3).

### CAUTION

Refer to the project details and the shop drawings to determine the placement and the width of the mastic.



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**Figure 3—RRg Mastic Application**

2. Place the water barrier into its installed position, pressing it firmly into the mastic on both sides of the joint and allowing it to drape into the joint to form a trough. Ensure that the water barrier is properly aligned and positioned.

## NOTE

Make the appropriate allowances for water expulsion at this time.

3. Allow sufficient time for the water barrier to adhere to the mastic.

## Base Member Installation

1. Using the base members as a template, place the member into the installed position.
2. Ensure that the base member is straight, level, and properly aligned.

## CAUTION

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

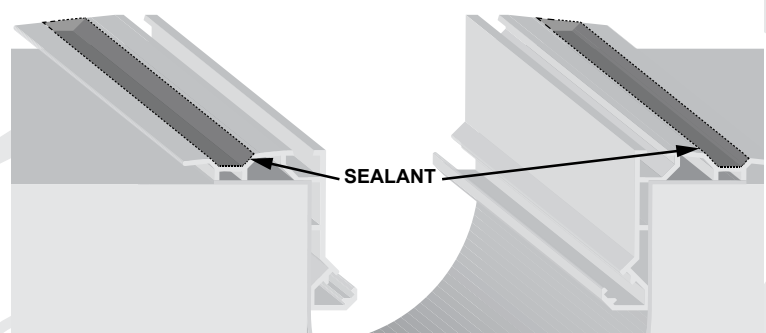
## NOTE

Refer to shop details for the exact placement for the specific joint size.

3. Mark the locations of the anchors on the water barrier attached to the substrate.
4. Drill the anchor holes at the marked locations, ensuring that the anchor holes are properly aligned.
5. Clean all dust and debris from the joint.
6. Attach the base members to the substrate using the anchors provided.
7. Repeat steps 1 through 6 for the other side of the joint.

## Face Seal Installation

1. Determine the length of seal required for the installation.
2. Cut the seal to the required length for the installation using the hacksaw or utility knife to ensure the seal has a straight and clean cut.
3. Add a continuous bead of sealant into the recess in all base members (Figure 4).



**Figure 4—RRg Base Member  
Sealant Placement**

4. Insert the arrow end of the seal into the base member retainer tracks on one side. Then insert the arrow ends of the seal into the corresponding base member retainer tracks on the other side (Figure 5).

## 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.





# INSTALLATION INSTRUCTIONS FOR RIZZA™ RR AND RRg SERIES EXPANSION JOINT COVERS

## RR SERIES INSTALLATION ONLY

### Base Member Installation

1. Using the base members as a template, place the member into the installed position.
2. Ensure that the base member is straight, level, and properly aligned.

### CAUTION

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

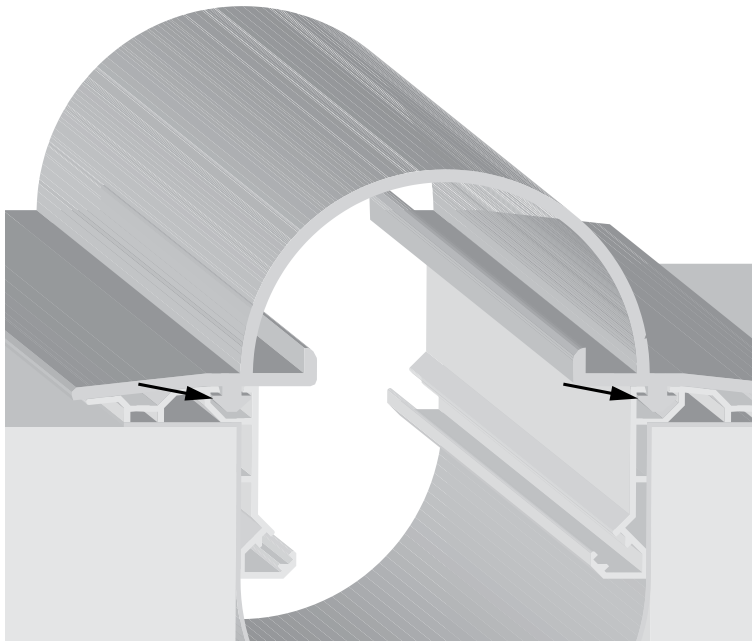
### NOTE

Refer to shop details for the exact placement for the specific joint size.

3. Mark the locations of the anchors on the substrate on both sides of the joint.
4. Drill the anchor holes at the marked locations, ensuring that the anchor holes are properly aligned.
5. Clean all dust and debris from the joint.
6. Attach the base members to the substrate using the anchors provided.
7. Repeat steps 1 through 6 for the other side of the joint.

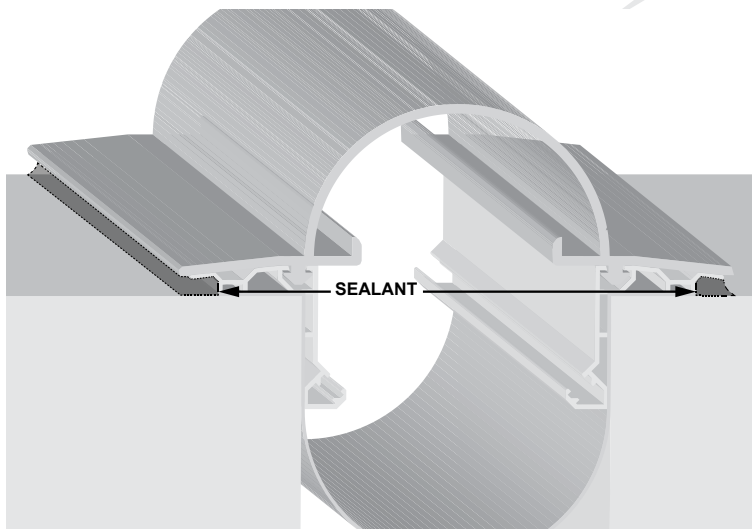
### Water Barrier Installation

1. Apply a continuous bead of sealant into the lower retainer tracks (Figure 7).

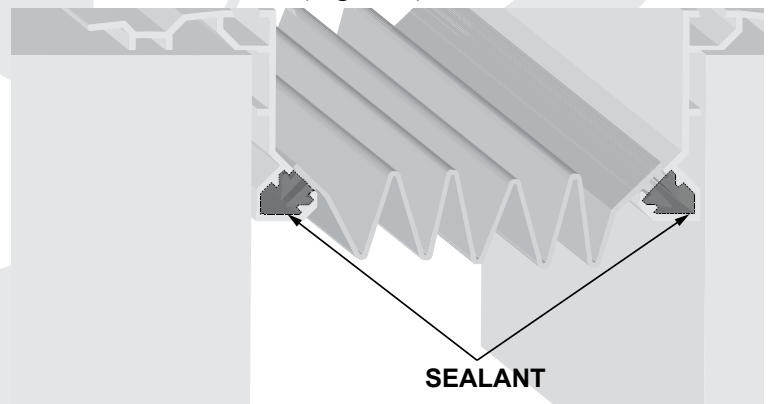


**Figure 5—RRg Face Seal Placement**

5. Apply a continuous bead of sealant into the outside gaps in the base members (Figure 6).



**Figure 6—RRg Outer Sealant Application**



**Figure 7—Water Barrier Installation and Sealant Placement**

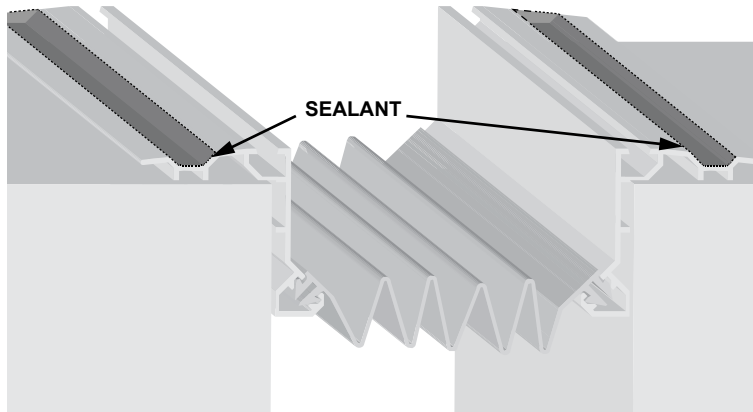


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2. Insert the back seal arrows into their corresponding base member and lower retainer tracks so that the back seal properly spans the joint (Figure 7).

## Face Seal Installation

1. Determine the length of seal required for the installation.
2. Cut the seal to the required length for the installation using the hacksaw or utility knife to ensure the seal has a straight and clean cut.
3. Add a continuous bead of sealant into the recess in all base members (Figure 8).



**Figure 8—RR Base Member  
Sealant Placement**

4. Insert the arrow end of the seal into the base member retainer tracks on one side. Then insert the arrow ends of the seal into the corresponding base member retainer tracks on the other side (Figure 9).

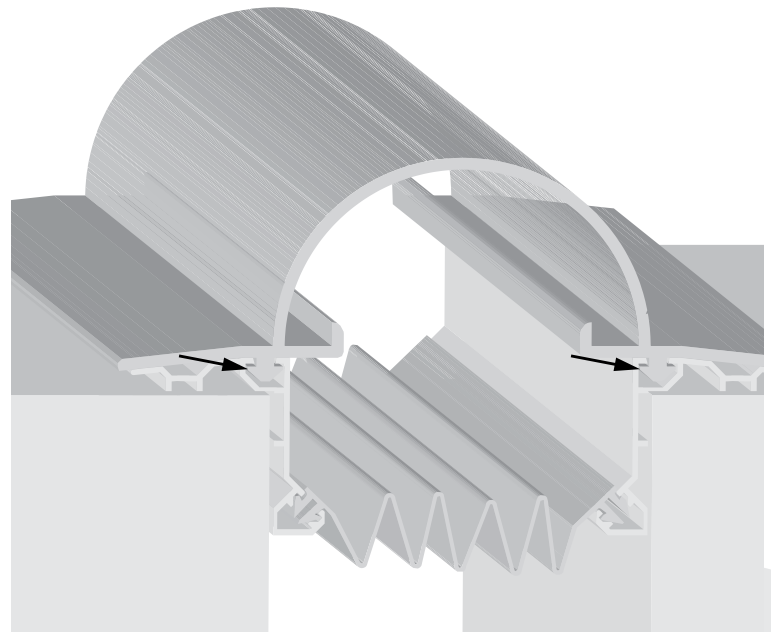
### NOTE

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.

5. Apply a continuous bead of sealant into the outside gaps in the base members (see Figure 6).



**Figure 9—RR Face Seal Placement**

## SPLICES AND TRANSITIONS

Balco, Inc recommends that seals be installed in the longest lengths possible to minimize splices. These instructions are for the field fabrication of splices.

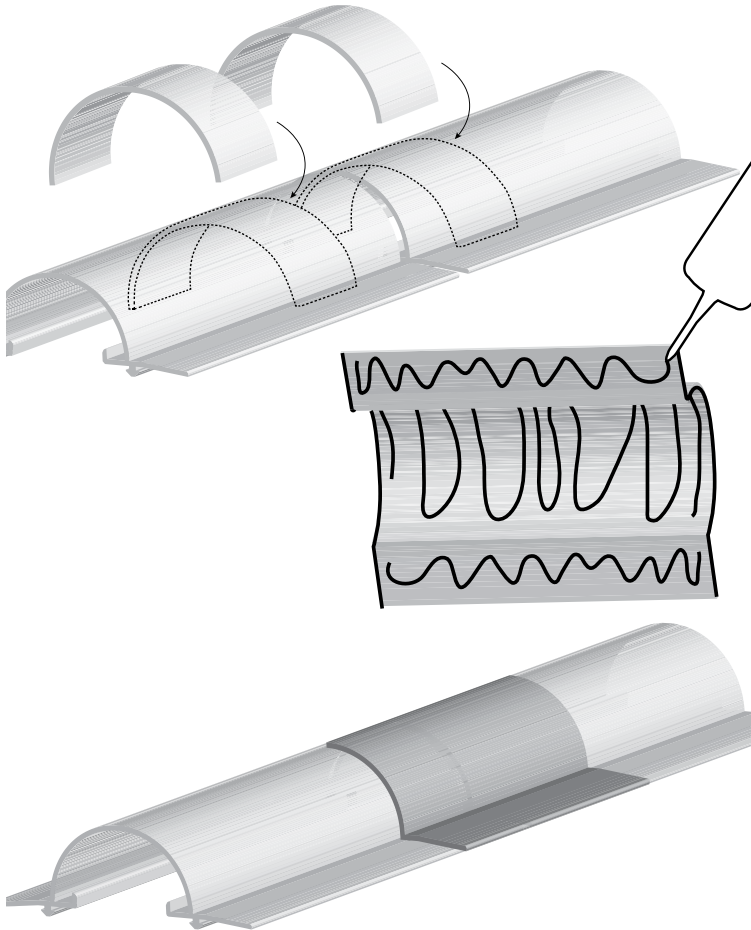
### NOTE

Contact Balco, Inc. to order splice kits if necessary.

1. Cut the two sections of the seal to length using a miter box or chop saw to ensure the ends are straight and fit snugly together.
2. Place a metal support band just inside of both face seal sections (Figure 10).
3. Trim silicone sheet material to conform to the splice area.
4. Apply sealant to the sheet in a zig-zag pattern (Figure 10).
5. Place the sheet so it is centered over the splice (Figure 10).
6. Place a continuous bead of sealant along the perimeter of the sheet.



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**Figure 10—Splicing Installation**