



**MICHAEL RIZZA COMPANY™**

**Premium Silicone Systems**

A Division of  **BALCO INC**  
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**INSTALLATION INSTRUCTIONS  
FOR MICHAEL RIZZA™ RR SERIES  
ROOF-TO-ROOF SILICONE SEAL  
JOINT COVER SYSTEMS**

# INSTALLATION INSTRUCTIONS FOR Michael Rizza™ RR SERIES, ROOF-TO-ROOF SILICONE SEAL EXPANSION JOINT COVER SYSTEMS

The following installation instructions are very important. Read them carefully, and be sure you understand them completely before you begin any work.

## STORAGE & HANDLING

The expansion joint covers are shipped unassembled. Upon receipt, this product should be stored in the horizontal position in a clean, dry location. This is a finished product. Store this product in a protected area.

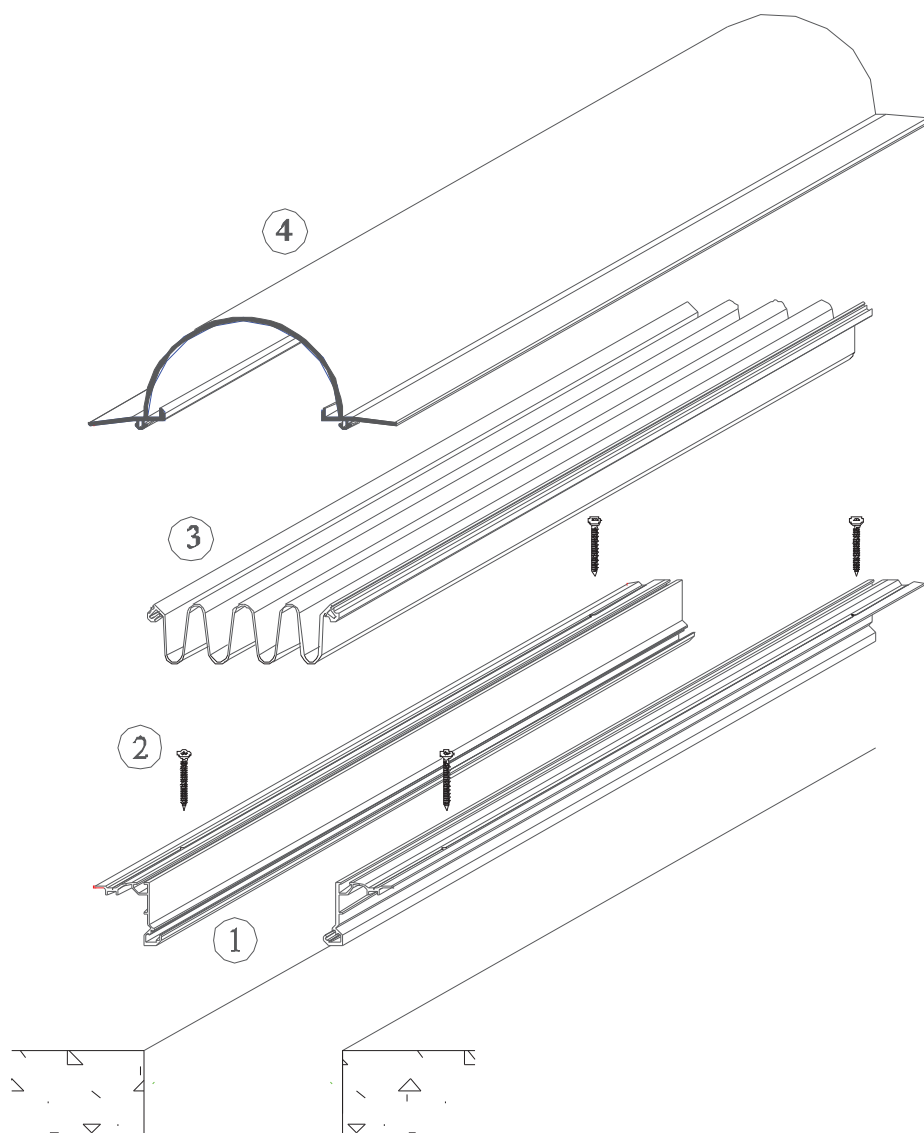


Figure 1

## PARTS

1. Aluminum Base Members
2. Base Member Anchors
3. Back Seal
4. Silicone Seal

## TOOLS REQUIRED

This is a list of tools and materials recommended for use in the installation of these joint systems. Tools and materials in this list are not provided by Balco, Inc.

- A. Drill Bits for Base Members (Metal).
- B. Drill Bits for Concrete (if required)
- C. Electric Drill
- D. Phillips Head Screw Drivers
- E. Caulking Gun
- F. Weatherproofing Sealant
- G. Miter Box
- H. Hacksaw (for cutting Seal)

## INSTALLATION

These installation instructions are for use in the installation of Rizza™ RR Series, Roof-to-Roof Silicone Seal Expansion Joint Covers, Types RR-2 through RR-12. The system is illustrated in Figure 1. The joint cover system shall be installed as follows:

**STEP 1.** Review Balco, Inc. approved shop drawings for types and locations.

**STEP 2.** Select the base members. If the anchor holes have not been drilled into the base members at the factory, mark the locations for the anchor holes on the base members, see Figure 2. Standard anchor spacing is 20" o.c. with an anchor hole a maximum of 3" from each end of each extrusion section. Drill the anchor holes into the base members at the marked locations.

**STEP 3.** If fire barrier is provided with the system, install it at this time. Refer to the installation instructions for the appropriate fire barrier type provided for procedures for the proper installation of the fire barrier.

**STEP 4.** Select a section of the drilled base members, and place it in proper installed position on the roof. Ensure that the base member is level, straight, and properly aligned.

**STEP 5.** Using the base member as a template, mark the locations for the anchor holes on the substrate, see Figure 3.

**STEP 6.** Remove the base member from its installed position, and drill the anchor holes into the substrate at the marked locations.

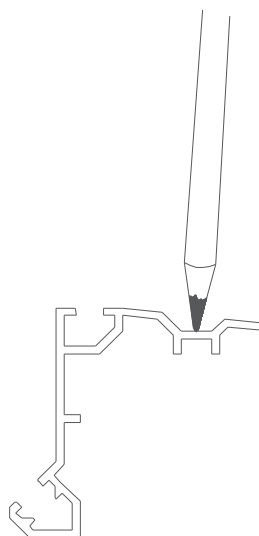


Figure 2

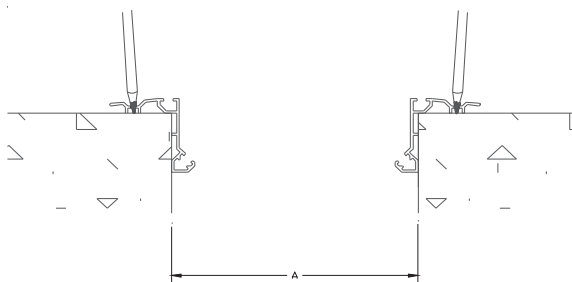


Figure 3

**NOTE:** OBSERVE NORMAL SAFETY PRECAUTIONS WHEN DRILLING INTO CONCRETE OR MASONRY TO AVOID ALL UTILITIES AND RE-BAR. CLEAN AWAY ALL REFUSE FROM THE INSTALLATION AREA.

**STEP 7.** Repeat Step 4 through Step 6 for the opposite base member. Ensure that the base members are straight, level, and properly aligned.

**STEP 8.** Place the base members back into their installed position. Ensure that the base members are properly aligned, straight, level, and that the anchor holes in the base members align properly with the anchor holes in the substrate.

**STEP 9.** Using the fasteners provided by the factory, attach the base members to the substrate, see Figure 4. Ensure that the base members remain properly aligned, level, and straight.

**STEP 10.** Select the sealant, by others. Apply a continuous bead of sealant to the gap between the end of each base member and the substrate, see Figure 5.

**NOTE:** EPDM SHEET WATER BARRIER MAY BE PROVIDED AND INSTALLED IN LIEU OF THE BACK SEAL. REFER TO THE STANDARD WATER BARRIER INSTALLATION INSTRUCTIONS FOR PROCEDURES FOR USE IN THE INSTALLATION OF THE EPDM WATER BARRIER SHEET.

**STEP 11.** Apply a continuous bead of sealant into the base member's back seal channels, see Figure 6.

**STEP 12.** Select the back seal. Insert the back seal arrows into their corresponding base member channel so that the back seal properly spans the joint, see Figure 7.

**STEP 13.** Select the roof seal. Determine the length of seal required for the installation. Mark the seal at the location at which it needs to be cut to attain the required length.

**STEP 14.** Place the roof seal into its installed position. Insert the arrows of the trimmed section of the roof seal into the corresponding base member seal retainer tracks, see Figure 8. Lubricating the face seal's arrows

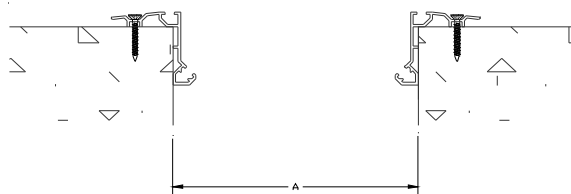


Figure 4

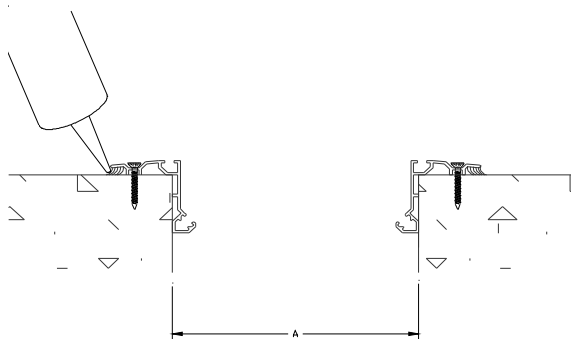


Figure 5

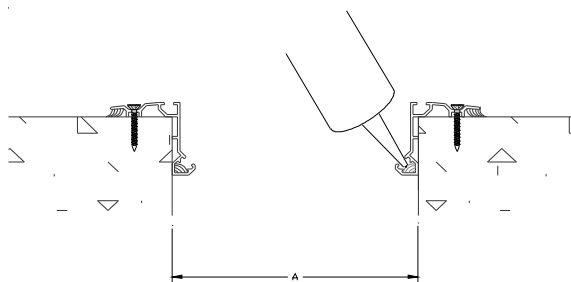


Figure 6

with soapy water or liquid soap can make installation of the face seal easier. Do not use oils or oil based lubricants on the face seal arrows.

**STEP 15.** End Closures for the roof seal are field fabricated. Balco, Inc. recommends trimming the seal at a 45o angle and using a silicone sheet patch sheet to form the end closure. The closure is put in place and sealed to the end of the roof seal using an suitable.

### SPLICING RR Series

Balco, Inc. recommends that RR Series Roof Seals be installed in the longest lengths possible to minimize splices. These instructions are for the field fabrication of splices, when needed.

**STEP 1.** For typical splices base members are abutted end to end, leaving a gap for thermal expansion. Caulk is applied into the gap of mating base members. If it is necessary to trim the mating sections of roof seal to fabricate the splice, place the face seal into a field fabricated miter box.

**STEP 2.** Flooding the area with water to lubricate the saw blade, cut the roof seal by applying constant downward force on the hacksaw frame. Note that the cut should be made with one stroke to minimize ragged edges.

**STEP 3.** Select the mating roof seal sections. Ensure that the mating edge of each seal is straight. Apply a bead of caulk to the edge of one of the mating seal sections, and press the mating seal sections together to form the initial splice of the seal.

**STEP 4.** Select the Silicone Sheet material. Trim the sheet as needed to conform it to the splice area. Place the sheet in its installed position so that the splice in the roof seals is nominally centered in the sheet cover. Using an appropriate silicone sealant, seal the sheet cover to the roof seals.

### RR SERIES FIELD FABRICATED TRANSITIONS

These instructions are for the field fabrication of transitions (changes of direction in the joint or at locations where joints in different planes intersect one another). If one is not available, fabricate a miter box for the roof seals.

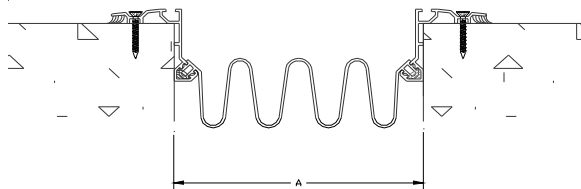


Figure 7

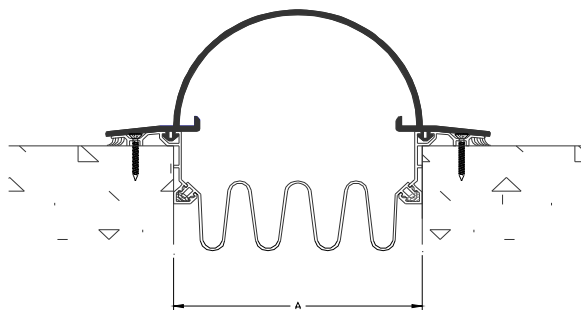


Figure 8

**STEP 1.** Miter the mating base members as needed for the transition. Leave the recommended 1/4" gap between the mating base members to allow for the thermal expansion of the aluminum extrusions. Apply a continuous bead of caulk into the gap between the mating base members.

**STEP 2.** Select the mating roof seal sections. Place the mating sections, one at a time, into the miter box and miter the mating sections of seal so that they will mate with one another. Ensure that the mating edge of each seal is straight and at the proper miter.

**STEP 3.** Apply a bead of caulk to the edge of one of the mating seal sections, and press the mating seals together to form the initial portion of the seal splice.

**STEP 4.** Select the Silicone Sheet material. Trim the sheet as needed to conform it to the transition. Place the sheet in its installed position so that the splice line in the roof seals is nominally centered in the transition sheet cover. Using an appropriate silicone sealant, seal the sheet cover to the roof seals.

## **WARRANTY POLICY**

Balco, Inc. warrants to its purchasers that all products sold by it will be free from manufacturing and material defects. Any defective product will be replaced or repaired free of any charge, provided a claim is brought to our attention, in writing, within the established warranty period following the date of shipment by us and provided our examination shows the product has failed under the terms of this warranty. The established warranty period for exterior joint cover systems (Duraflex™) is five (5) years provided the systems are installed by a Balco Certified Installer. The established warranty period for grids and mats is two (2) years. The established warranty period for all other Balco, Inc. products is one (1) year. Balco, Inc. will not be responsible for installation costs involved in such repair or replacement. Balco, Inc. shall have no obligation under this warranty if owner subjects materials to improper conditions (refer to Balco's installation instructions) This is in lieu of all other warranties, expressed or implied, and is the sole warranty extended by Balco, Inc. Our liability under this warranty is limited to repair or replacement and does not include any responsibility for consequential or other damage of any nature. It is further agreed and understood that the price stated for the seller's products is consideration for the limitation of seller's liability hereunder.

### **REGISTERED TRADEMARKS:**

"VINYLINES" "SAF-T-GLO"  
"METAFLEX" "SAF-TEN BEVEL"  
"SENTRY" "DURAFLEX"  
"ILLUMI-TREAD"

### **BALCO, INC. PATENT NUMBERS:**

5,357,727; 5,782,044; 5,829,216;  
5,832,678; 6,014,848; 6,115,980;  
6,581,347; 6,942,419; 6,955,017;  
6,962,026; 7,104,717; 7,856,781;  
7,946,784; 8,079,190; 8,245,471;  
SAF-T-GLO patent pending