INSTALLATION INSTRUCTIONS

BALCO INC

2626 S. Sheridan • P.O. Box 17249 • Wichita, KS 67217
www.balcousa.com • 1-800-767-0082

INSTALLATION INSTRUCTIONS FOR MICHAEL RIZZA™ CE SERIES SILICONE COMPRESSION SEAL 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.

ISO 9001 CERTIFIED
Business Management System

© Balco Inc. All Rights Reserved

EJC1306 Rev. 500/00/14

INSTALLATION INSTRUCTIONS FOR RIZZA™ CE SERIES SYSTEMS

These installation instructions are for use in the installation of the Rizza™ CE Series systems into smooth or irregular substrate surfaces (Figure 1 and 2).

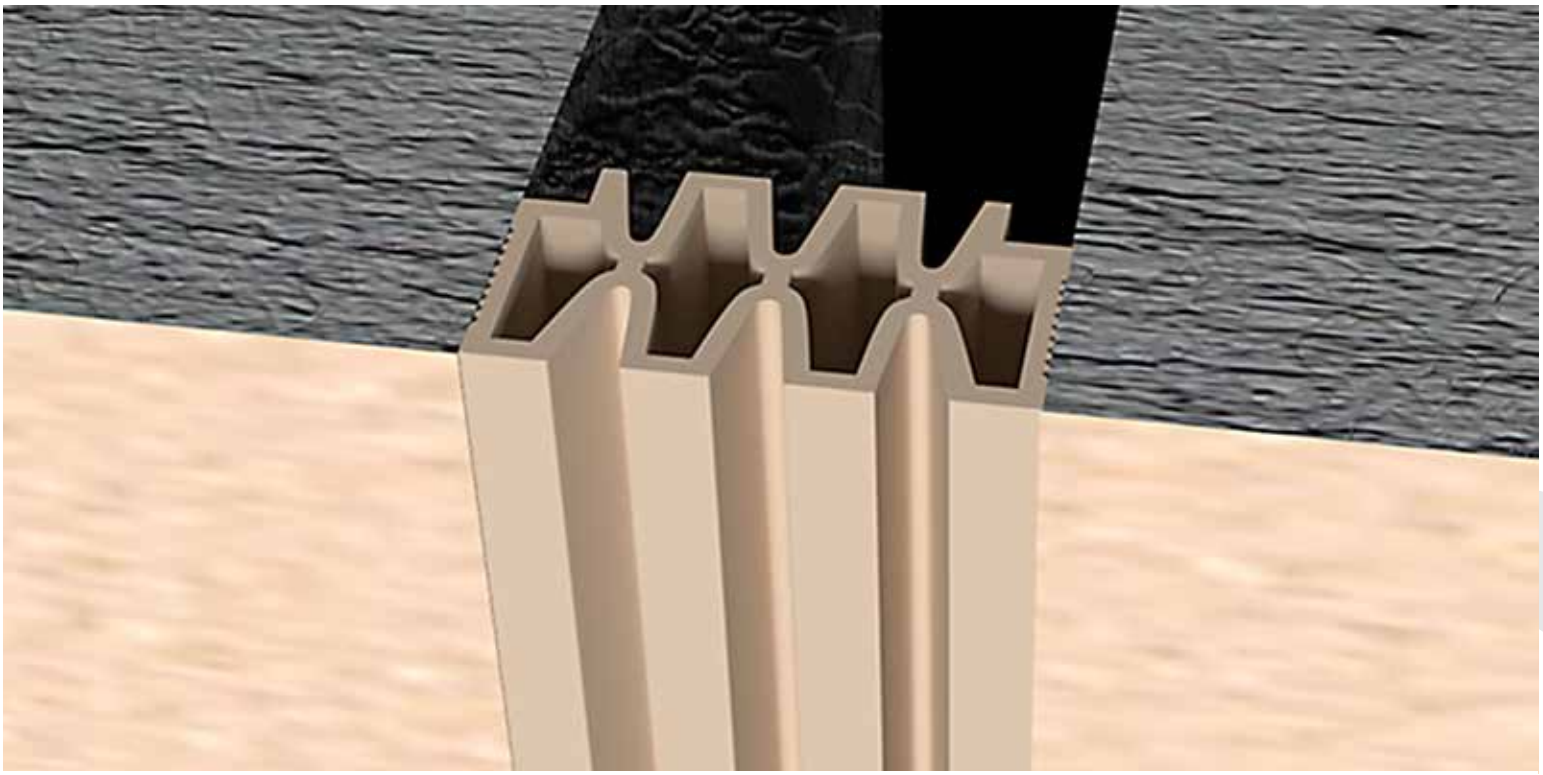

Figure 1—CE Compression Seal System—Smooth Surface Application

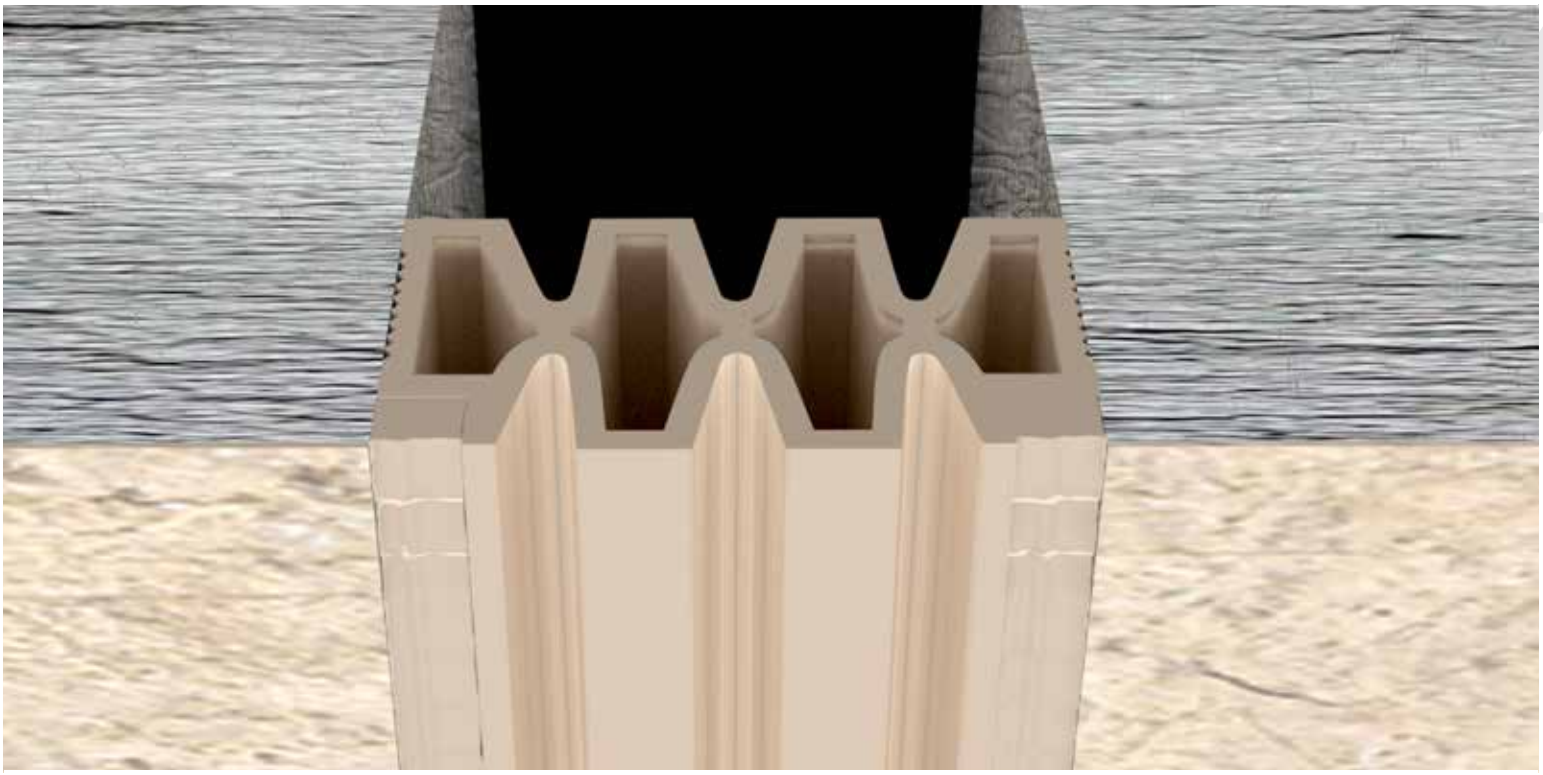

Figure 2—CE Compression Seal System—Irregular Surface Application

INSTALLATION INSTRUCTIONS FOR RIZZA™ CE SERIES 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.

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.

- Tape Measure
- Level
- Concrete Patching Material
- Markers
- Utility Knife
- Isopropyl Alcohol
- Caulk Gun
- Hammer
- Putty Knives
- Margin Trowel
- Miter Box
- Hacksaw or Chop Saw
- Gloves
- Safety Glasses
- Backer Rods
- Silicone Sealant
  Dow Corning 795 (Recommended) or 790

NOTE

Use color matched sealant for significantly exposed applications.

CAUTION

Work area must be well ventilated.

SURFACE PREP

Ensure the expansion 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. 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 3).

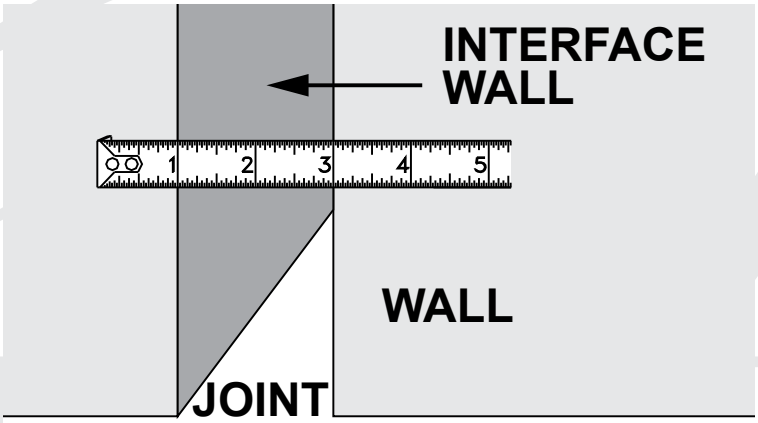

Figure 3—Measuring the Joint Size

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.

INSTALLATION INSTRUCTIONS FOR RIZZA™ CE SERIES SYSTEMS

SYSTEM INSTALLATION

SMOOTH SURFACE INSTALLATION

1. Cut the seal to the required length for the installation using the utility knife or smooth hacksaw to ensure a straight and clean cut.

CAUTION

The seal must not be stretched during the installation process.

2. Wash the side walls, for the entire length of the seal, using clean rags soaked in Isopropyl alcohol. Ensure that the alcohol is completely dried before continuing with the installation.

2a. **Stud and Gypsum Fire Resistant Installations Only—**Use Cement Board at the joint interface for joints with a maximum opening of 1 3/8" or greater (Figure 4).

Figure 4—Application of Cement Board

NOTE

Balco, Inc recommends 3/8" Hardiebacker or Permabase Cement Board.

WARNING

CEMENT BOARD MUST LINE THE ENTIRE JOINT TO ENSURE THAT THE SEAL BONDS TO THE CEMENT BOARD AND NOT TO THE WALL BOARD.

3. Compress the seal, with the smooth side out, and insert it into the joint (Figure 5).

Figure 5—Placement of Joint in a Smooth Installation

4. Ensure that the seal is straight and at the proper depth in the joint.

NOTE

Refer to the approved shop drawings for the proper seal placement.

CAUTION

The seal must not be stretched during the installation process.

5. Insert the tip of the silicone sealant tube between the seal and the substrate to the midpoint of the seal thickness (Figure 6).
6. Apply a continuous bead of silicone sealant along both sides of the seal.

NOTE

A mark can be placed on the nozzle of the tube to help maintain a constant depth.

7. Ensure that the seal remains straight, properly aligned, and at the proper depth within the joint.

INSTALLATION INSTRUCTIONS FOR RIZZA™ CE SERIES SYSTEMS

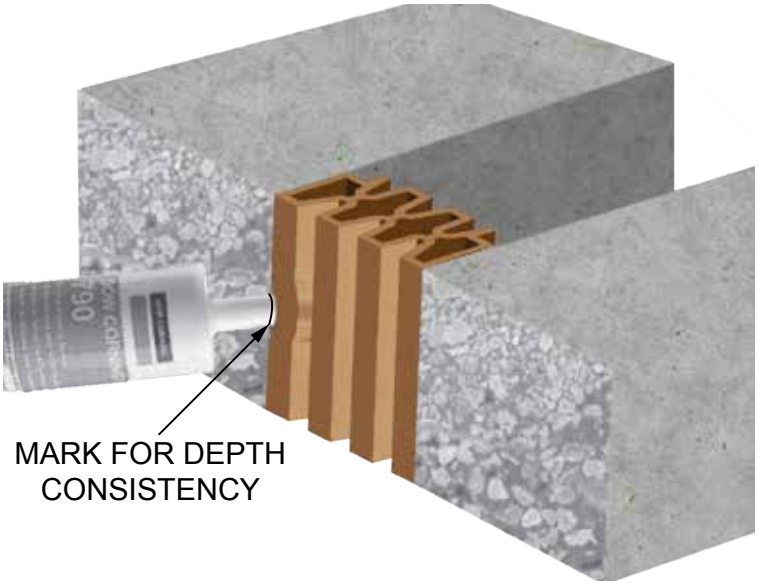

Figure 6—Silicone Application into a Smooth Joint

8. Remove any extra sealant from the installation area.

IRREGULAR SURFACE INSTALLATION

1. Cut the seal to the required length for the installation using the hacksaw and a miter box or chop saw to ensure a straight and clean cut.

CAUTION

The seal must not be stretched during the installation process.

2. Wash the side walls, for the entire length of the seal, using clean rags soaked in Isopropyl alcohol. Ensure that the alcohol is completely dried before continuing with the installation.
3. Compress the seal, with the tab side out, and insert it into the joint (Figure 7).
4. Ensure that the seal is straight and at the proper depth in the joint

NOTE

Refer to the approved shop drawings for the proper seal placement.

5. Insert the tip of the silicone sealant tube between the seal and the substrate to the midpoint of the seal thickness.

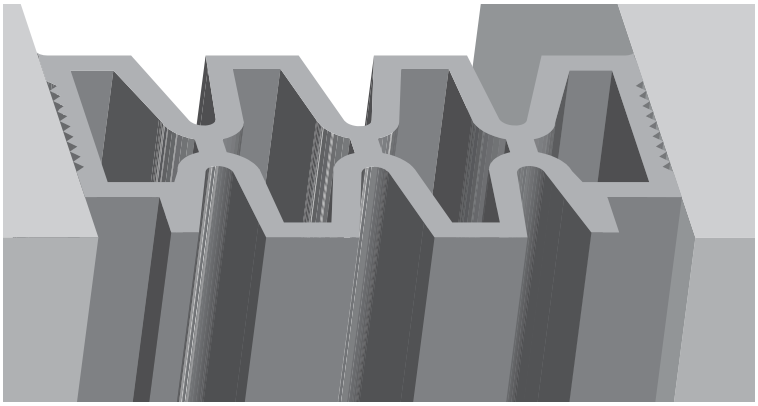

Figure 7—Placement of Joint in an Irregular Installation

6. Apply a continuous bead of silicone sealant along both sides of the seal.

NOTE

A mark can be placed on the nozzle of the tube to help maintain a constant depth.

7. Apply a continuous bead of silicone sealant along both sides of the seal between the substrate and the tab of the seal (Figure 8).

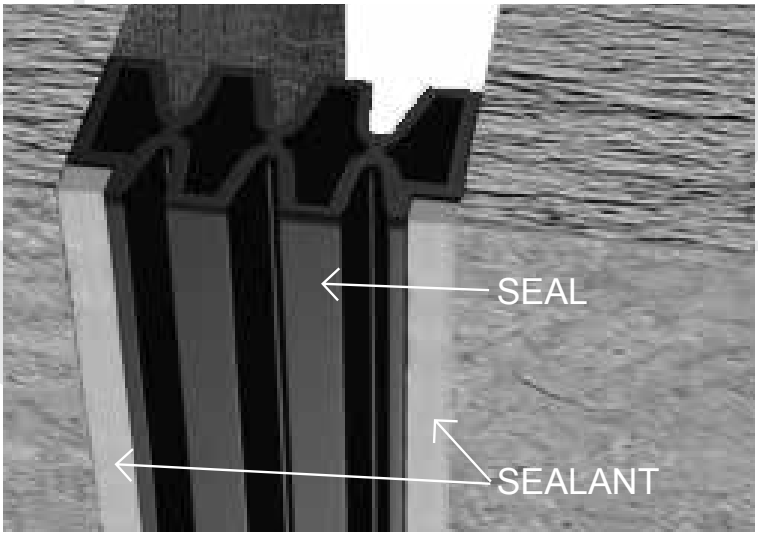

Figure 8—Silicone Application into an Irregular Joint

8. Ensure that the seal remains straight, properly aligned, and at the proper depth within the joint.

9. Remove any extra sealant from the installation area.

SPLICES AND TRANSITIONS

Compression seal splices and transitions are field fabricated using appropriately sized backer rods and the recommended silicone sealant or equivalent (Figure 9).

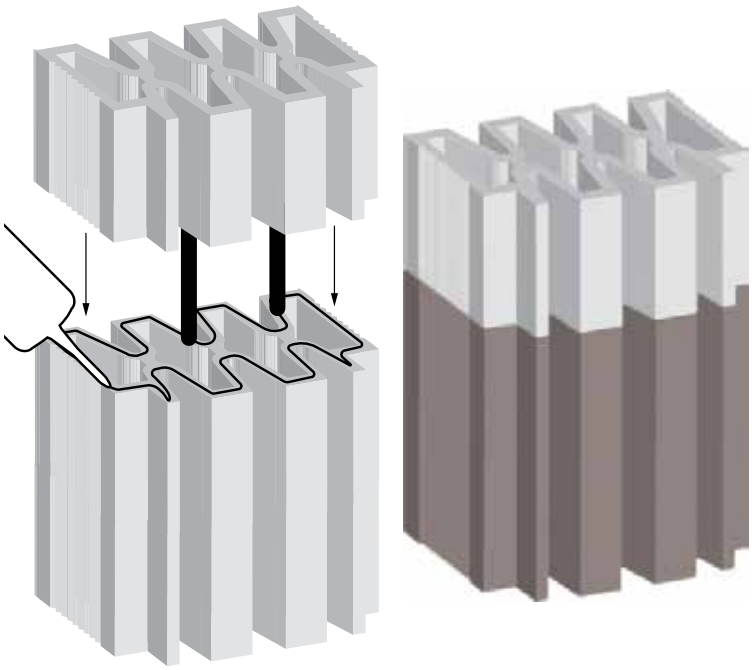

Figure 9—Placement of Backer Rods in Splices

1. Cut the two sections of the seal to length using a hacksaw or chop saw.
2. For transitions, miter the mating seals so that the seals will mate together as snugly as possible.

NOTE

It may be necessary to miter the backer rods for 90° transitions.

3. Clean the splice section ends with Isopropyl alcohol.
4. Insert the alignment backer rods into the seal chambers so that half of the rod is inserted into its respective seal chambers (Figure 9).
5. Apply silicone sealant to the end of one of the sections.
6. Join the section ends together and hold them in place until the sealant is sufficiently cured. Ensure that the alignment backer rods are inserted into the corresponding chamber of the mating seal section.