ESFB-Series Installation Instructions

ARCHITECTURAL SEISMIC SYSTEM – RENOVATION

MODEL(S): ESFB/ESFBw

Interior Joints (Floor)

ESFB Floor to Floor Cover System

GENERAL DESCRIPTION

The ESFB Renovation Seismic Expansion Joint System is designed for renovation building projects where an expansion joint is needed to tie new construction to existing construction. The system is bolted into the existing construction and a blockout is necessary for the new construction.

GENERAL SAFETY PRECAUTIONS Improper selection, installation, or use can cause personal injury or property damage. It is solely the responsibility of the user, through their own analysis, to select products suitable to the specific application requirements, ensure proper maintenance and use as intended. Follow local, state, and federal regulations for proper installation and operation requirements.

Introduction + Safety

Please read the complete instructions carefully before beginning any work. To ensure proper installation and performance of the product, the following actions must be completed by the installing contractor. Failure to do so will affect product warranty.

Transportation + Storage

- Inspect all shipments and materials for missing or damaged components and hardware.
- Material must be stored in a clean, dry location.

Preparation

- Locate the packing slip(s) and/or shop drawings.
- Verify that all products listed on the packing slip are included in the package.
- Check the products for damage. If products are damaged, report a freight claim immediately and leave the products in their packaging. If you sign for products without reporting damage, you waive your right to a freight claim and will be responsible for their replacement cost.
- Read the instructions thoroughly before beginning installation.

Tool List

- Tape measure
- Chop saw to cut product to length
- Electric drill with 3/16” masonry bit
- Broom & dustpan or vacuum

Included with the expansion joint system:

- 3/16” x 1-3/4” Tapcon fastener
- #10-24 screws

Pre-Installation

1. Pour floors with blockouts as shown on shop drawings. The blockout should be a minimum of 2” wider than the exposed cover width by the specified depth.

2. Ensure that the blockout is smooth. High spots should be ground down and low spots filled in. Make sure the blockout is clean by sweeping and/or vacuuming.

INSTALLATION

1. Remove the factory installed #10-24 screw that attaches the wing plate to the base member frame and retain for reinstallation later. **See Figure 1**

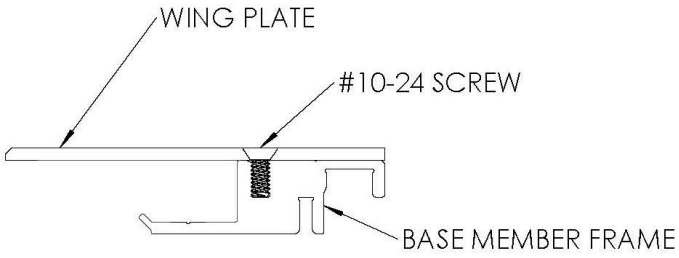

FIGURE 1

2. Position appropriate base member frame in blockout and position other base member frame on the non-blockout side per shop drawings. Using the frames as a template, mark and drill 3/16" holes for Tapcon fasteners. Install base member frames to the blockout opening and non-blockout side with fasteners, making sure not to over tighten. *Note: In the 2" size the base frame on the non-blockout side is shaped differently than what is shown in Figure 2, see shop drawing for clarification*. **See Figure 2**

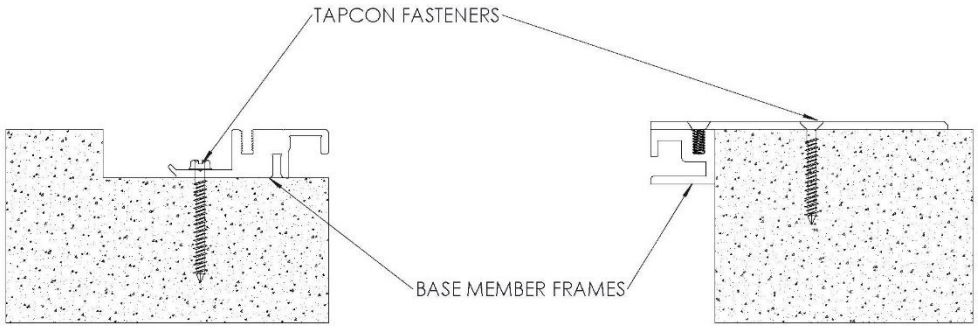

FIGURE 2

3. Protect the exposed surface of the expansion joint, then using an appropriate infill material, fill in the blockout level with the surrounding floor. **See Figure 3**

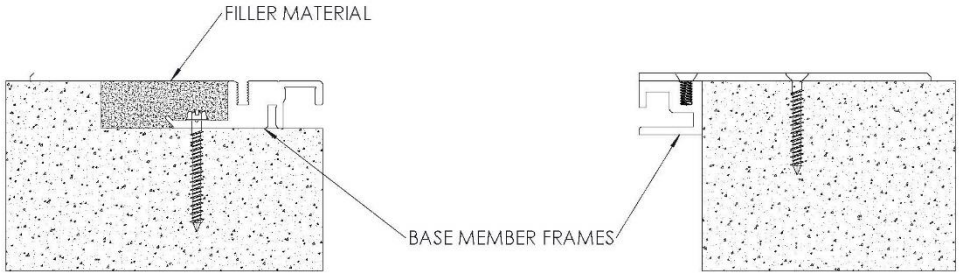

FIGURE 3

4. After infill material has cured, reinstall the wing plate to the base member frame with the #10-24 screw. **See Figure 4**

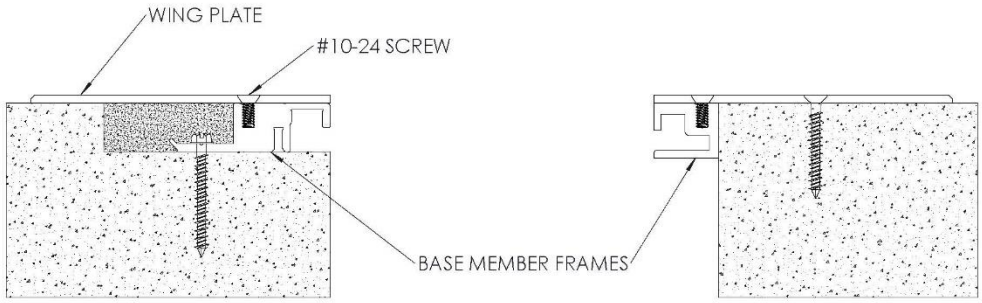

FIGURE 4

5. Lay cover plate over the left base frame with ends flush and mark the cover plate center holes onto the base frame near the inside edge. Repeat this on the right side. Position the spring assembly in the spring track on the base frames. This is done by sliding the spring assemblies in from the ends of the frames and aligning them with the marked locations. The spring assemblies will be diagonal to the opening. Tape may be needed to hold the spring assembly in place. *Note: In the 2" size the spring assembly is shaped differently than what is shown in Figure 5, see shop drawing for clarification*. **See Figure 5**

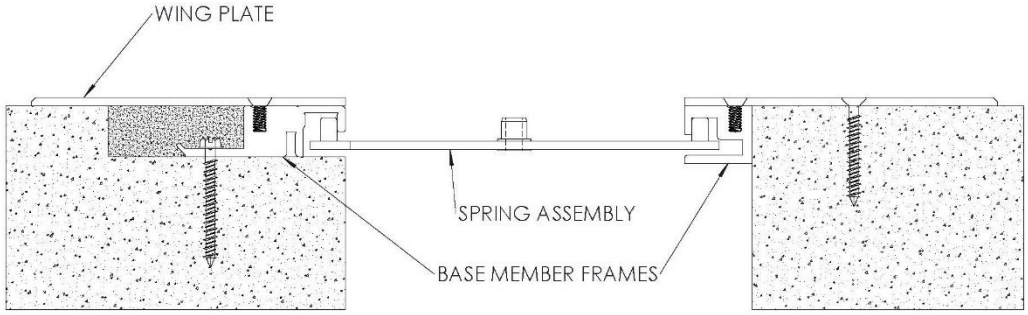

FIGURE 5

6. Position the cover plate centered over the base frame and with the center hole aligned with the spring assemblies. Attach the cover plate to the spring assemblies with the provided spring screws. DO NOT OVERTIGHTEN. **See Figure 6**

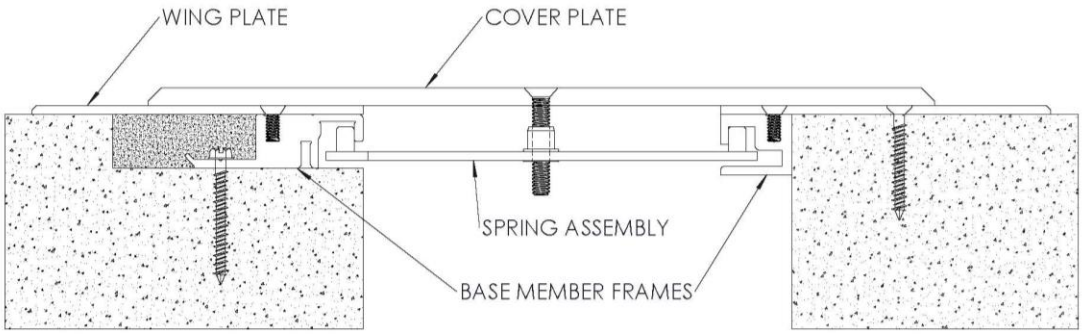

FIGURE 6

ESFBw Floor to Wall Cover System

GENERAL DESCRIPTION

The ESFBw Interior Cover System is designed to match the ESFB cover plate in floor to wall applications.

Included with the expansion joint system:

- 3/16” x 1-3/4” Tapcon fastener

Pre-Installation

1. Pour floors with blockouts as shown on shop drawings. The blockout should be a minimum of 1” wider than the exposed cover width by the specified depth.

2. Ensure that the blockout is smooth. High spots should be ground down and low spots filled in. Make sure the blockout is clean by sweeping and/or vacuuming.

INSTALLATION

1. Remove the factory installed #10-24 screw that attaches the wing plate to the base member frame and retain for reinstallation later. **See Figure 1**

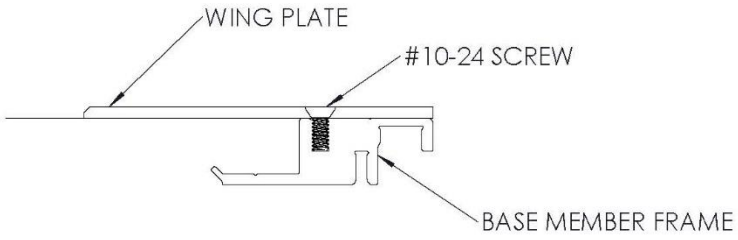

FIGURE 1

2. Position base member frame in blockout per shop drawings. Using the frame as a template, mark and drill 3/16” holes for Tapcon fasteners. Install base member frame to the blockout opening with fasteners, making sure not to over tighten. **See Figure 2**

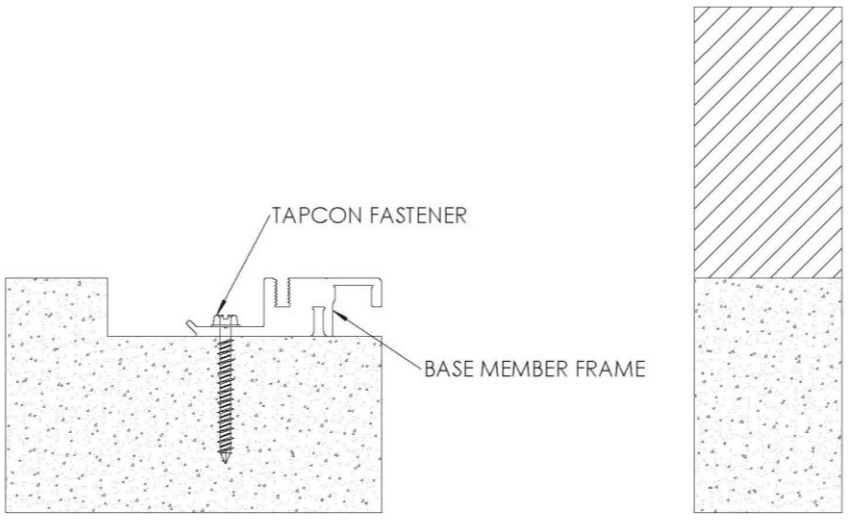

FIGURE 2

3. Protect the exposed surface of the expansion joint, then using an appropriate infill material, fill in the blockout level with the surrounding floor. **See Figure 3**

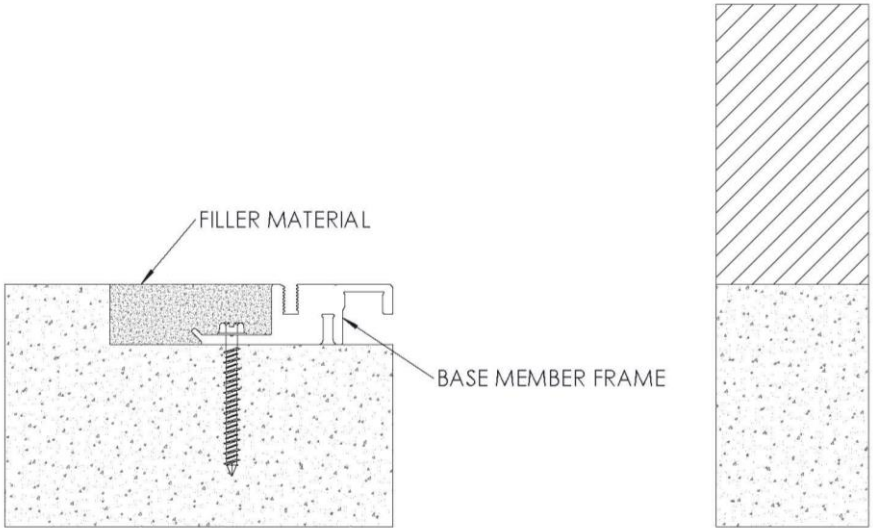

FIGURE 3

4. After infill material has cured, reinstall the wing plate to the base member frame with the #10-24 screw. **See Figure 4**

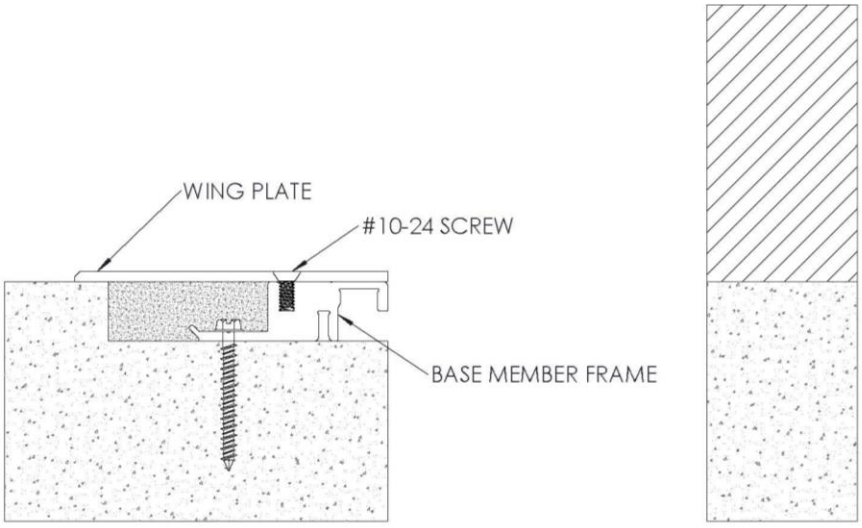

FIGURE 4

5. Position the cover plate against the wall as shown, making sure the bottom of its horizontal face is level with the top surface of the wing plate. Attach the plate to the wall using appropriate fasteners (by others) for the wall type, spaced 18" o.c. **See Figure 5**

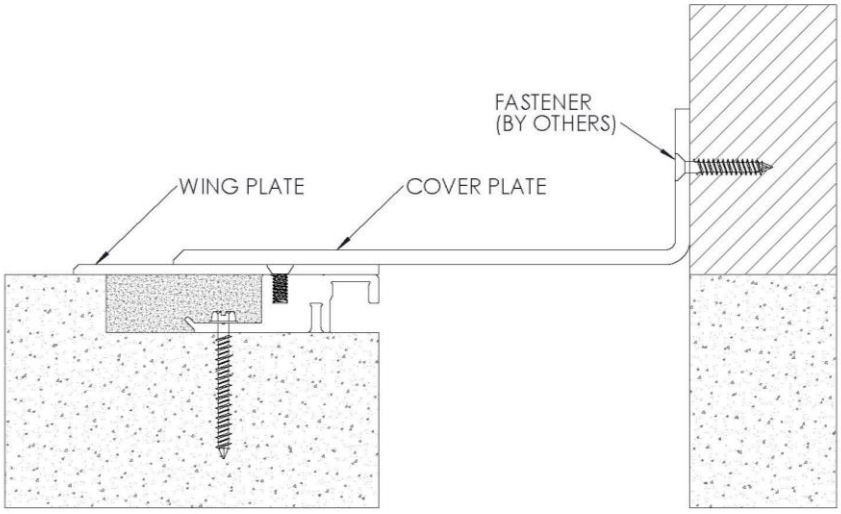

FIGURE 5