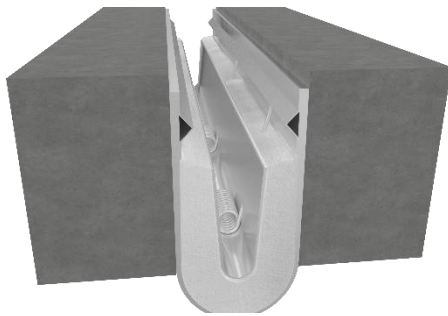


SEISMIC FIRE BARRIER FLOOR & WALL SYSTEM – INSIDE APPLICATION

MODEL(S): EJN-FLF140 / EJN-FLW140 SERIES

Fire Barrier System – 2” Through 4” Sizes



GENERAL DESCRIPTION

Expansion Joint Systems are an important life safety requirement in current building codes. These systems allow safe movement when buildings shift due to expansion & contraction. The following are general instructions for installing, operating, and maintaining this specific fire barrier system.

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 the 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
- Tin snips or angle grinder
- Rubber mallet
- Broom & dustpan or vacuum
- Level
- Utility knife
- 1” wide putty knife

Included with the expansion joint system:

- UL-rated fire caulk

Preinstallation

NOTE: STORE AND INSTALL BLANKETS SUCH THAT THE PRODUCT REMAINS DRY.

1. Verify joint width in field prior to ordering system. EJN-FLF140 / EJN-FLW140 Series has a minimum joint width of 2.00” [51mm].
2. Verify that the structural gap and blockout dimensions are in conformance with submittal data before beginning installation. Certification of this product was completed by Intertek Testing Laboratories. Product must be installed in accordance with these installation instructions.
3. Ensure joint in plumb and square, also verify soundness of substrate. Repair any spalls or cracks prior to proceeding.
4. For vertical (wall) conditions single sided and double-sided blankets are available. For single sides product, ensure drape of blanket faces "potential threat" side of wall.
5. If job site specific conditions exist, these general installation instructions do not take place of an engineering evaluation if required. Any modifications made to the product without documented manufacturing direction will void the warranty.

INSTALLATION (EJN-FLF140 / EJN-FLW140 ONLY)

1. Remove product from packaging and identify both male and female ends. Straighten male end if required before installation into expansion joint. **NOTE: It is best practice to install all horizontal blankets at each floor continuously with no interruptions. Complete installation with verticals, See Figure 1.**

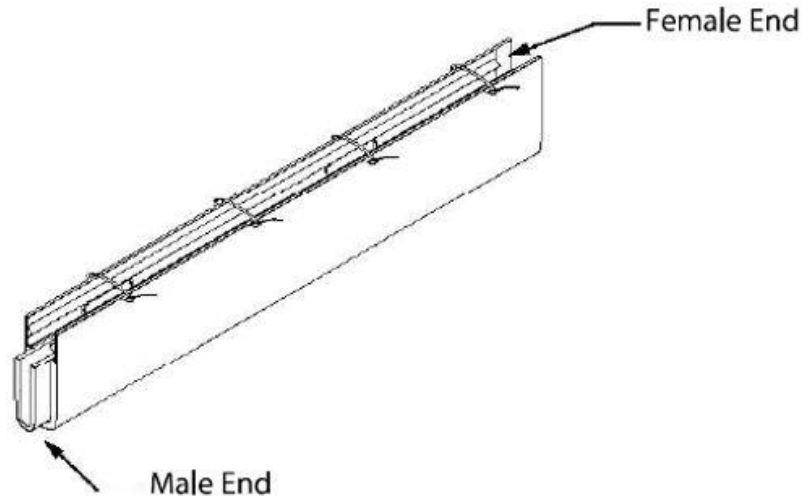


Figure 1

2. Before starting run, cut the male end off the blanket. **See Figure 2**

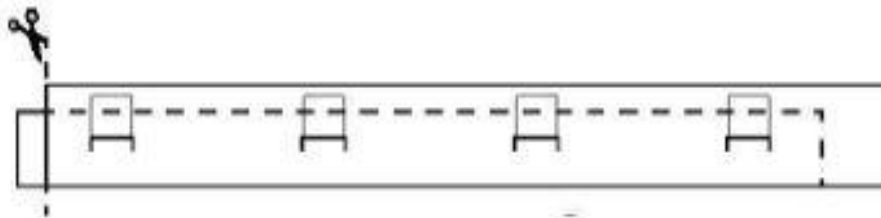


Figure 2

3. With the male end at the starting point of the installation; insert barrier into expansion joint. If starting at an exterior wall, ensure the male end of the stick covers the total wall depth. TIP: If joint width is smaller than the specified nominal joint width, compress the sides of the blanket evenly using a wood form and clamps. This will allow the EJN-FLF140 blanket to regain its “pill shape”. Reference detail of joint condition to ensure fire barrier is installed at a depth that does not conflict with any part of the expansion joint system above. **See Figure 3.**

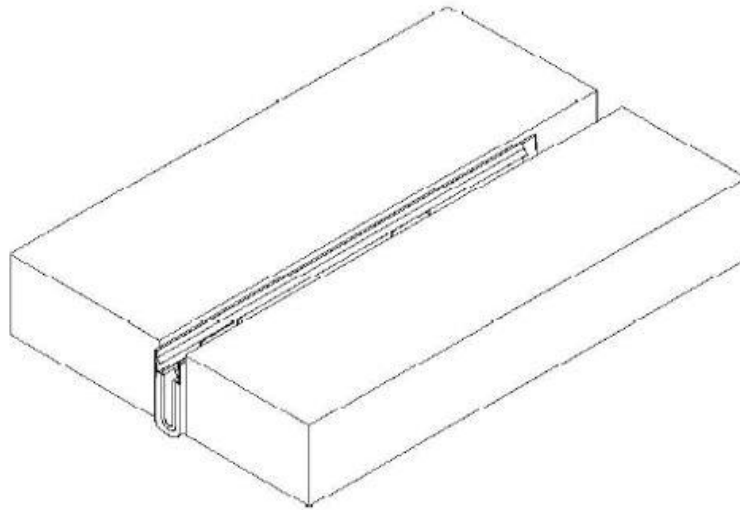


Figure 3

4. While holding only the aluminum frame on one side, cut the zip ties starting on one end working towards the other end. Continue installation by overlapping the male side into female side. Ensure the transition connection is snug and free of gaps. Verify the seam overlaps tight, with no visible gaps or holes. NOTE: Installing male to female sections is easier if the female end of the previous barrier is raised out of the expansion joint. Butt the male into the female end and install into the expansion joint. Cut zip-ties for the current fire barrier and continue installation for the rest of the run. **See Figure 4 (next page).**
5. If field conditions require a stick to be cut short, measure the required length from male end and cut the appropriate length. If the removed section of the fire barrier contains a spring, be sure to remove that spring from the dropping section and reinstall into provided slots in the blanket that will be installed. NOTE: Maintain maximum spring spacing of 24” [610mm] O.C. typical. **See Figure 5 (next page).**

Fig 4

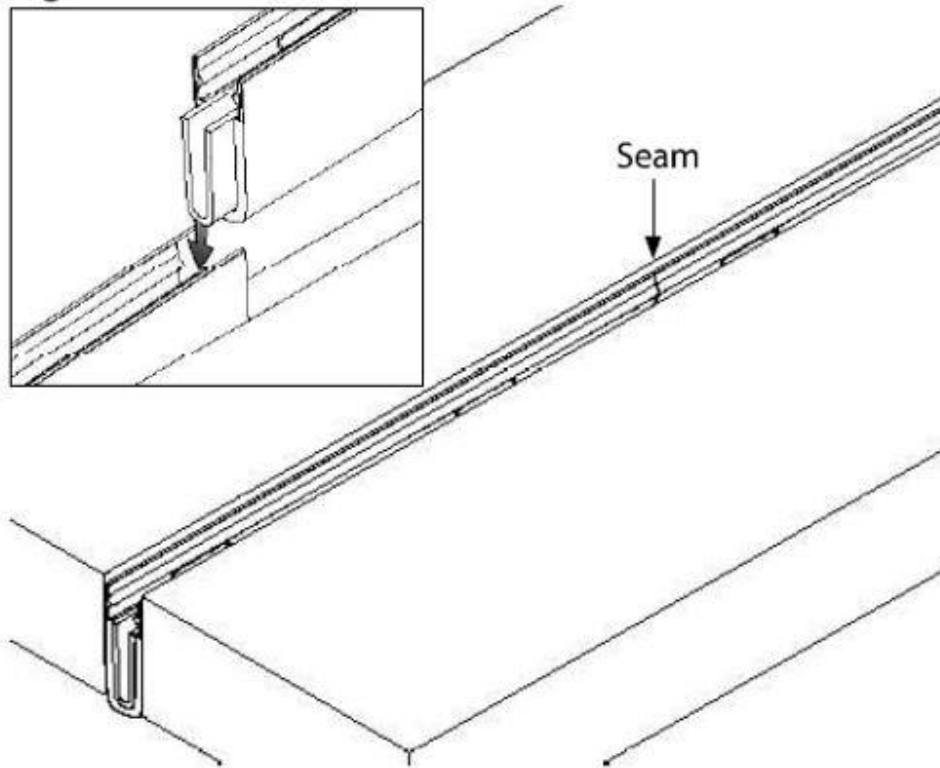


Fig 5

- When the fire barrier meets a rated wall, continue the horizontal fire barrier uninterrupted, or a minimum of the total wall depth to ensure no gaps exist at the intersections. (Reference Figure 8 on next page). If a spring of the horizontal fire barrier is located inside the wall joint, it must be moved to a point before the wall to achieve a proper transition. Maintain a maximum spring spacing of 24" [610mm]. Remove 2.00" [50mm] from each metal flange on the male end of the fire barrier. Apply UL-listed fire caulk liberally to the section of the horizontal fire barrier where the vertical stick will intersect, face of the male end, flanges, and interior walls of the slab before installing the wall stick. (see Figure 7 for more detail – following pages). Insert fire barrier male end down and cut the bottom most zip-tie and continue cutting upward. **See Figure 6 (next page).**

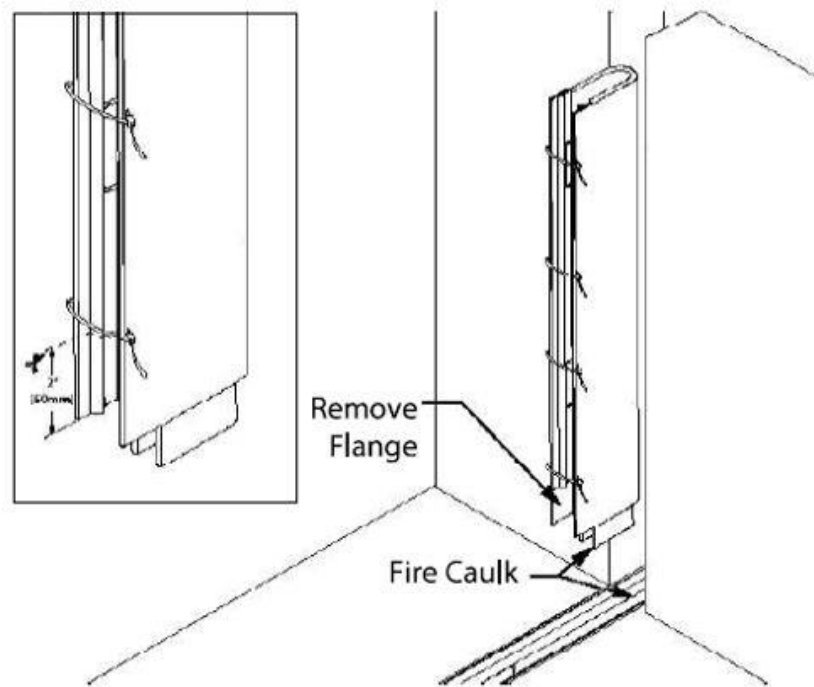


Figure 6

7. Continue vertical installation repeating previous steps for the rest of the run. When intersection the horizontal fire barrier above, cut final piece to length, and trim female end to match the drape of the horizontal fire barrier above, applying fire caulk to the underside of the fire barrier, the portions of the wall around the intersection, and inserting a female end. Ensure there are no gaps at transition. If the vertical run ends with a full stick, use scrap batting to stuff the female end to match the overall thickness. For perpendicular installs, trim intersecting fire barrier, to match the preinstalled run. Apply fire caulk to trimmed face, and side of pre-installed fire barrier. **See Figure 7 (next page).**

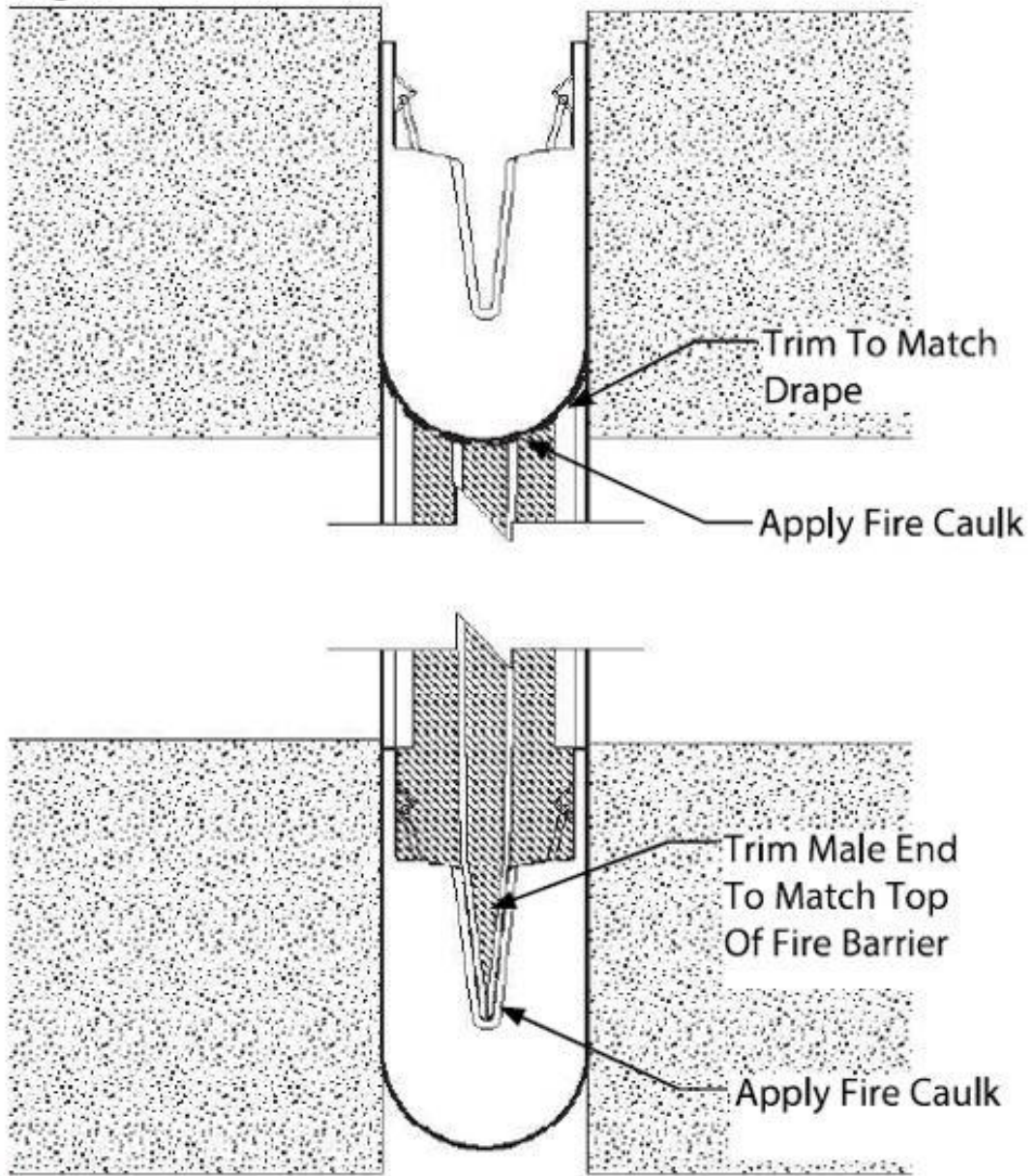
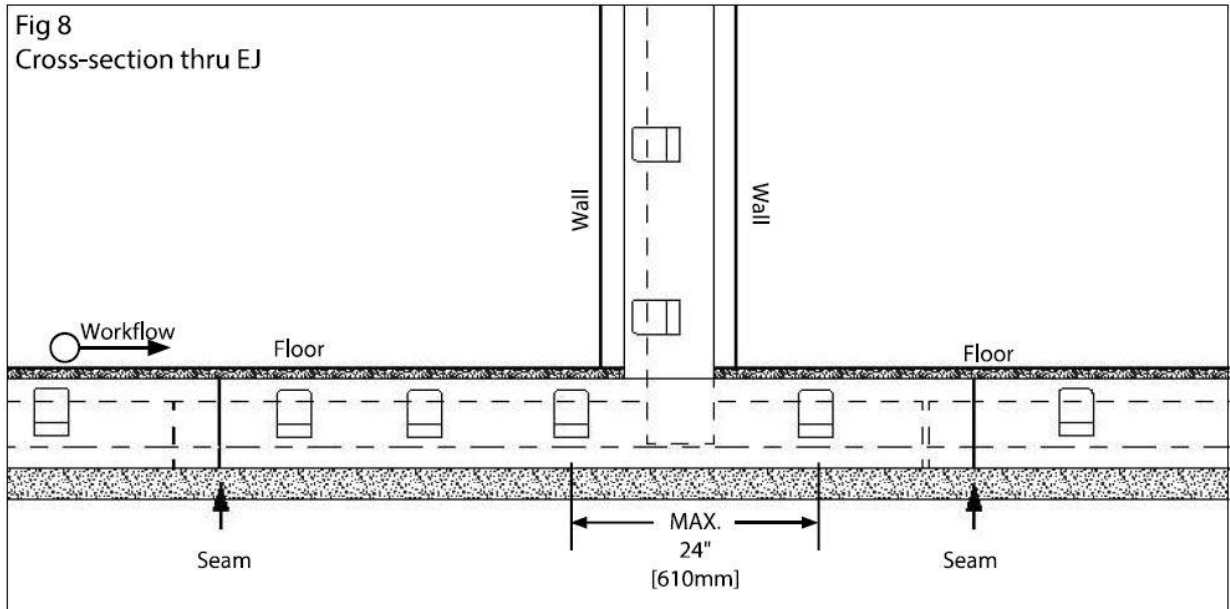


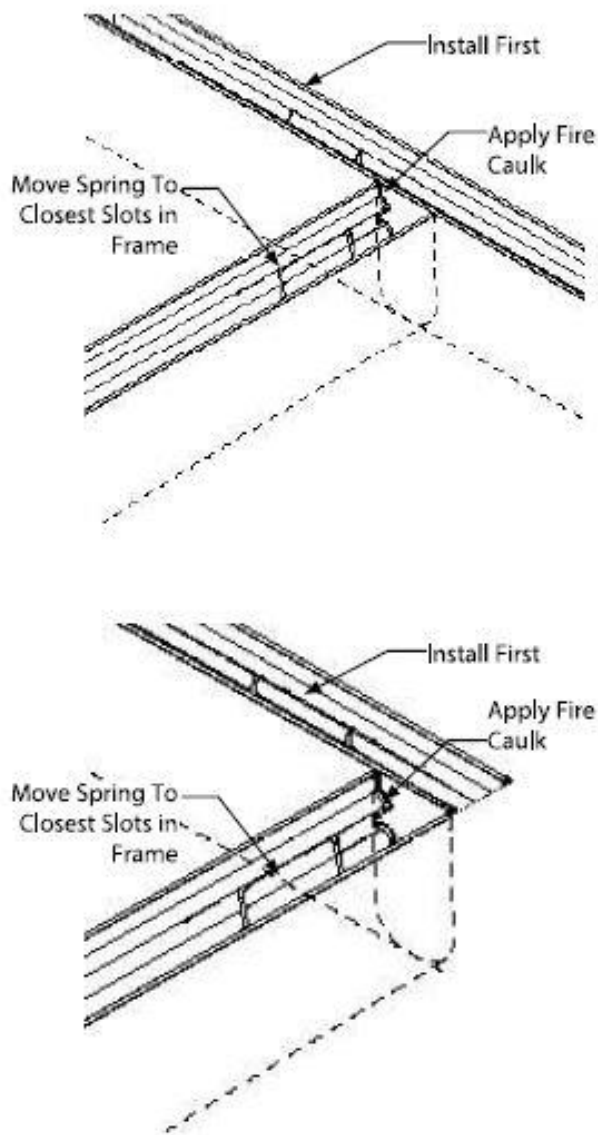
Figure 7



(continued next page)

8. Install continuous run before installing intersecting run. Before installing the intersection. Cut the intersecting end of the EJN-FLF140 assembly to achieve a clean butt end. Reposition the springs so that they are in the nearest spring slot to the cut end of the blanket. Insert the intersecting blanket into the expansion joint. Ensure the cut end of the EJN-FLF140 butts flush with the side wall of the intersecting system. Apply fire caulk to seam at all visible openings. NOTE: Nystrom provides 1 to 2 tubes of fire caulk (depending on order size) at no charge. Should additional caulk be required due to project or site complexity, additional caulk to be provided by others. **See Figure 9.**

Fig 9



OPERATION

Expansion Joints are designed and built for years of dependable service.

MAINTENANCE

Perform annual inspections to make sure the system is in position; all fasteners are tight and in place and there is no impedance of joint cover movement. Repair and/or replace as needed.

QUESTIONS?

For more information on installation, repair, or replacement, please contact Customer & Sales Support at 800-547-2635 or visit [nystrom.com](https://www.nystrom.com)