

ALUMINUM HINGED HEAVY-DUTY SYSTEM – SURFACE APPLICATION

Model(s): PD/PDw

EJN-PD Floor to Floor System – 2” Through 8” Sizes



GENERAL DESCRIPTION

The Hinged Heavy-Duty Surface System is rated for low speed vehicular and pedestrian traffic; commonly placed in parking deck applications. An optional moisture barrier keeps the weather out.

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 replacement costs.
- Read the instructions thoroughly before beginning installation.

Tool List

- Tape measure
- Chop saw to cut product to length
- Electric drill with Ø7/16” masonry bits
- Slotted drivers for anchors
- Rubber mallet
- Metal file (to remove burrs if any)
- Broom & dustpan or vacuum
- Level
- Masking tape
- Silicone sealant
- Wood blocking
- Proper PPE (gloves)

Included with the expansion joint system:

- #5696 : Ø3/8” x 4" Lg. SSPHM Screws for Anchoring
- #5697 : 2-Part Anchoring Adhesive, 10oz
- #5698 : Static Mixing Tip (extra)

Additional Items that can be purchased to install the expansion joint system:

- #5699 : Manual Dispenser Epoxy Gun

Preinstallation

1. Ensure that the area where the expansion joint system is being installed is smooth and level. High spots should be ground down and low spots filled in. Make sure the substrate is clean by sweeping and/or vacuuming the substrate.

INSTALLATION (EJN-PD-200 THRU EJN-PD-800 & EJN-PD-200w THRU EJN-PD-500w)

1. Cut and fit EJN-PD Expansion Joint base members to required length. If installing more than one piece, lay out the entire run to insure proper alignment. **See Figure 1.**

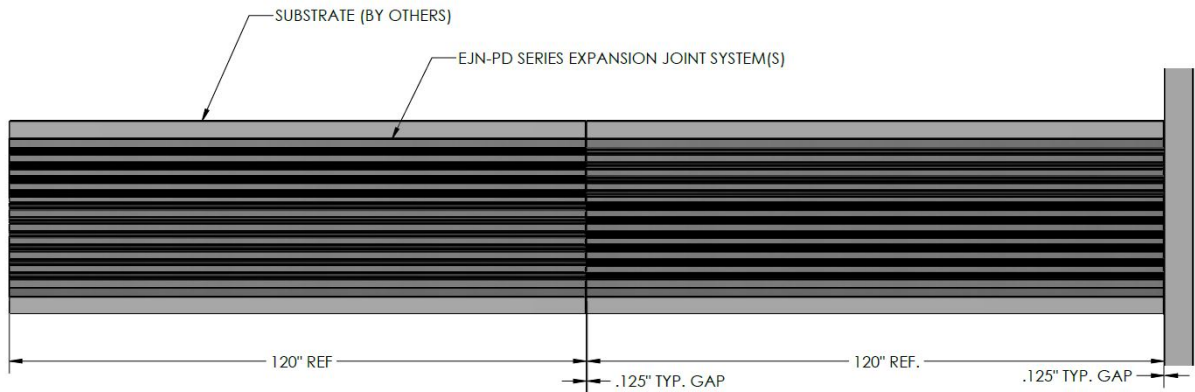


FIGURE #1

2. Optional Moisture Barrier installation instructions:

Typical installation would be as follows (subject to field conditions). **See Figure 2.**

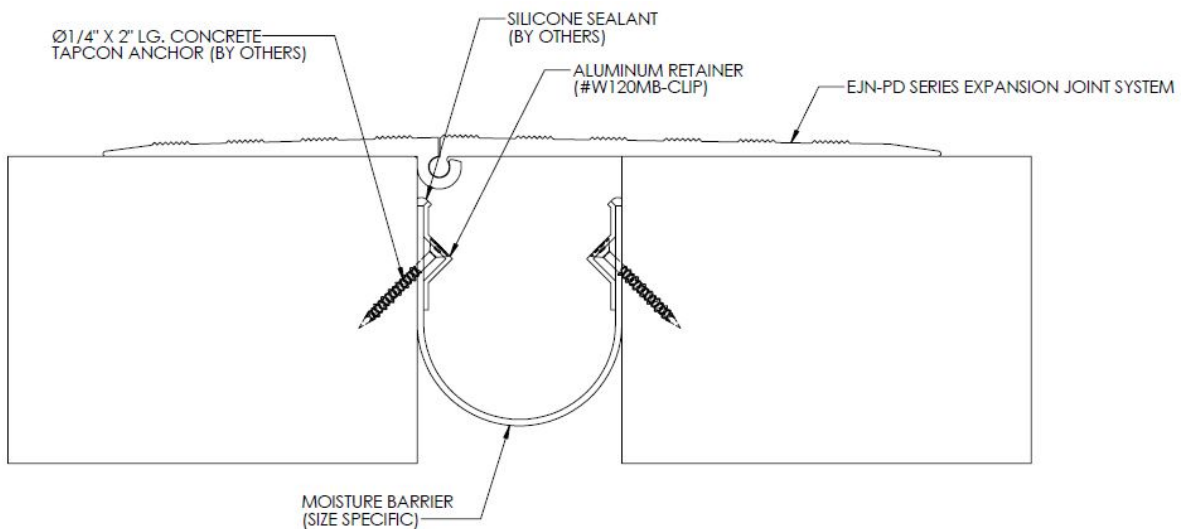
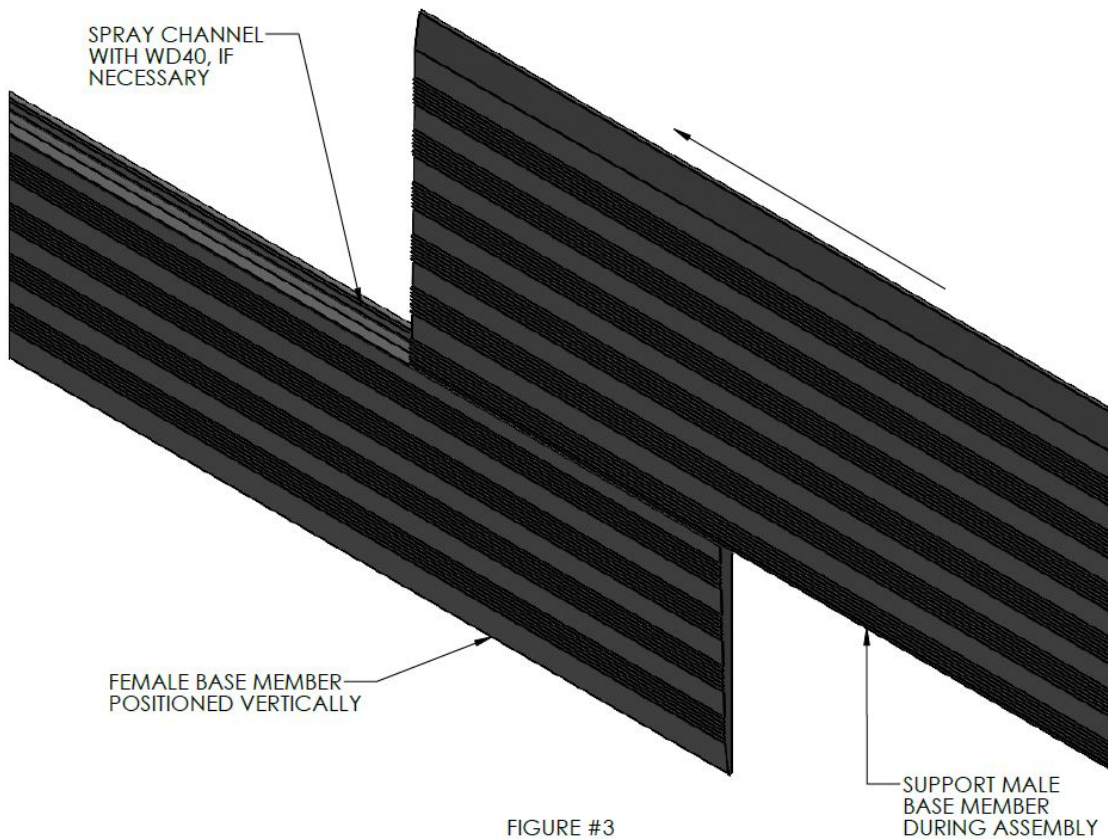


FIGURE #2

3. When assembling the two halves together, WD40 can be used as a lubricant. Place the female half vertically on end and spray the lubricant in the channel. Slide the male base member onto the female, making sure to fully support its weight. Vertical assembly (vs horizontal) will help eliminate flex and the possibility of binding. If necessary, you may use a non-metal hammer (rubber mallet) to apply more force to fully assemble the 10-foot sections. Never hammer directly onto the expansion joint, damage will occur. Wood blocking can be used as well. **See Figure 3**



4. When the two halves are assembled, place the female base member up against the inside wall of the joint opening. Also, the female base member should always be on the floor surface that is always above the other surface that the male base member sits on (Floor to Floor only). The male base members movement is restricted due to the joint and should not move above the other half. **See Figure 4 & Figure 4a.**

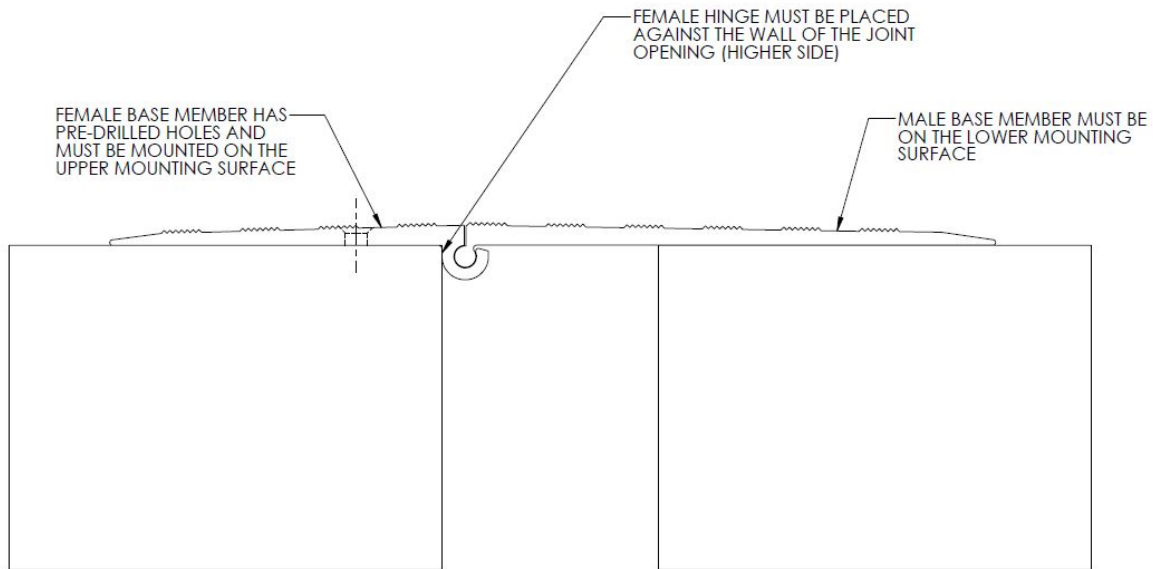


FIGURE #4

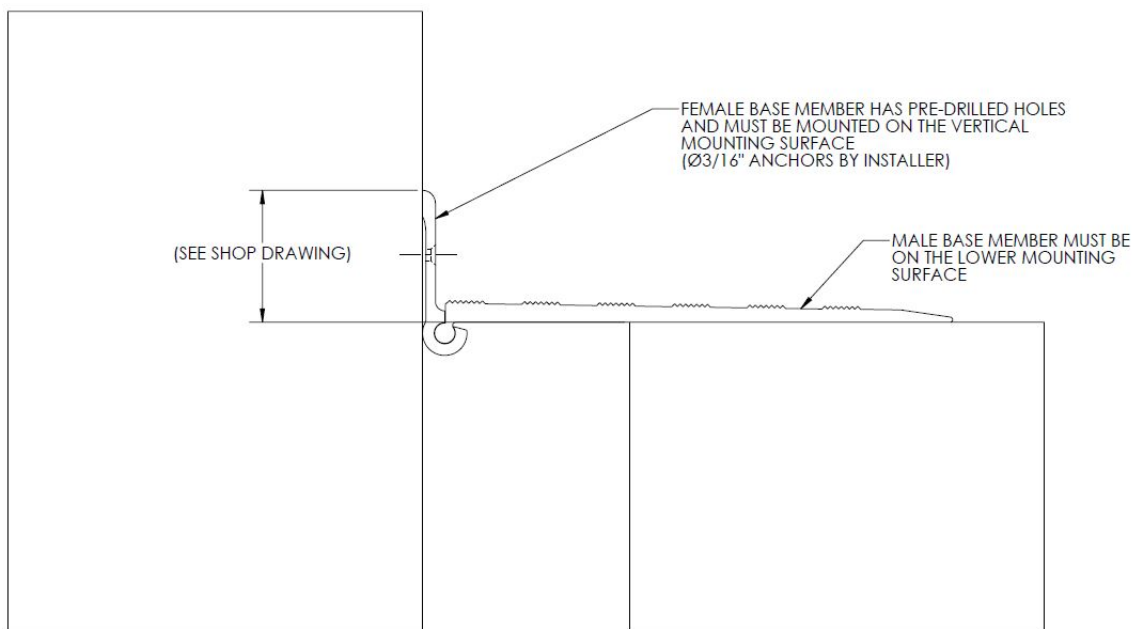


FIGURE #4a

5. The female base member has predrilled holes for placement of mounting hardware. Transfer the location of these holes to the surface using a marker.
6. Drill all marked holes using a Ø7/16” concrete drill bit to a minimum depth of 4”. All holes should be predrilled and cleaned prior to putting the epoxy gun and 2-Part epoxy system together. The epoxy cures with time and can harden within the static mixing tip. An additional mixing tip ships with the product and can be ordered separately if additional tips are needed (#5698). Use proper PPE, caution and safe handling when using this high strength concrete adhesive.
7. Assemble the epoxy gun and 2-Part epoxy along with the static mixing tip. Follow the manufacturers recommendations for assembly then discard the first 2 trigger pulls of the adhesive before filling holes.
8. Fill one hole approximately 1/2 to 1/3 full of the mixed epoxy. Take the Ø3/8 anchors and press it into the epoxy filled hole. Use a flat hammer, if necessary, to seat the flat head in the countersunk hole until it is flush with the surface of the expansion joint. The epoxy may take approximately 30 seconds to cure enough to hold the bolt in position. If the bolt should press out, continue to hold it down until its cured in place. It’s important not to move on to the next anchor until the previous one is set.
9. If required to assure a smooth transition, it is an option to flash patch the female side (anchored side) and feather back 2-3 feet.
10. Clean exposed surfaces with a non-solvent cleaner as required.

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 that 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