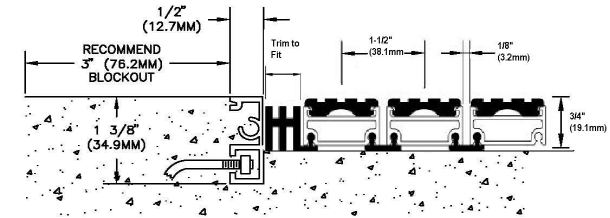


## Prepare for Installation

1. Locate the packing slip(s) and shop drawings.
2. Verify that all products listed on the packing slip are included in the package.
3. 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.
8. Read the instructions thoroughly before beginning installation.



## Install the Frame

**A FLAT FLOOR AND ACCURATELY INSTALLED FRAMES ARE CRITICAL TO THE OVERALL PERFORMANCE OF THE GRATE. AN IRREGULAR FLOOR SURFACE OR IMPROPERLY INSTALLED FRAME WILL CAUSE THE GRATE TO BE NOISY AND SPONGY AND CAUSE TRIPPING HAZARDS.**

1. There must be a recess for the grate that is 3" deep and 6" wider and longer than the frame. This allows room to maneuver the frame and provides clearance for the anchor bolts.
2. Insert the 1/4" x 3" anchor bolts and nuts in the frame channels. Space the anchor bolts at 2' intervals on all sides of the grate frame.
3. Assemble the frame sections according to the shop drawings. Note that there are two types of frames, ledge and plain. The ledge pieces, which may be at the front, back, or sides of the grate, can serve as a screed for leveling the concrete. Insert the 1/4-20 x 1" self-threading screws through the pre-punched holes in the plain sections of the frame and into the screw bosses on the ledge sections without tightening them completely. When the frame is completely assembled, finish tightening all of the screws.
4. Place the assembled frame into the opening. Shim as necessary to level the frame to the final height of the finished floor surface.
5. Pour cement mortar around the edges of the frame and the center in sufficient quantity to be level with the inside lip of the frame.
6. With a board that is slightly shorter than the inside of the frame, smooth and level the mortar. Surface must be flat within 1/8" over 10' to prevent damage to the product.
6. Before the mortar sets, check the frame to make sure that it is plumb, that the members join at the correct angles, and that it is at the correct height. Also, check the measurements of the frame against the shop drawings in several locations to make sure that the sizes are correct. THE GRATE WILL NOT FIT IF THE FRAME IS NOT INSTALLED EXACTLY AS INDICATED ON THE SHOP DRAWINGS. Use spreaders if necessary to hold the frame at the correct dimensions.
7. When the cement has hardened, install plywood or other material in the recess to protect the edges of the frame until it is time to install the grates. Wait to install the grates until the building is ready for use.

## Install the Grate

8. Remove the plywood or other filler from the recess and clean the recess thoroughly. Debris or other irregularities in the recess will cause the grate rails to bend and cause a tripping hazard.
  9. If the grate is more than one section, refer to the shop drawings for the proper location of each section.
  10. Unroll the grate sections into the recess. Push the grate tightly up against one side of the frame and trim the attached filler to ensure a tight fit in the recess.
  11. Save the installation and maintenance instructions and include them in the closeout documentation for the owner maintenance personnel.
- Continued maintenance is critical to the long term safety and performance of the grate. Remove the grate and clean the area beneath it periodically to prevent the surface from becoming uneven. If dirt builds up, the grate will bow and could become a tripping hazard. Follow the tread maintenance instructions included with this package to ensure the long life of the grate tread. If treads gets damaged, they can be replaced. Contact JL Industries for more information.



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