



## INSTALLATION INSTRUCTIONS

**Models:** KDCP, KDVP  
**Type:** Aluminum Entrance Grids and Frames

### INTRODUCTION

Installing aluminum entrance grids is a straightforward process. Careful attention to detail is essential to ensure a secure and firm installation that prevents looseness, rattling, or sponginess.

### UNCRATING UNITS

When uncrating, verify all crate contents against the packing slip by confirming the correct number of units and frames, if applicable. Review the shop drawings and check that all hardware packages are present.

Inspect all merchandise carefully for any damage and report it immediately. Do not remove items from the crates until an adjuster has verified the damage. The grids will arrive either sitting in welded frame sections or as loose frames that can be up to eight feet long.

### INSTALLATION OF FRAMES

*If no frames are provided, this section can be skipped.*

For level bed applications, there are two options. Option one is to embed the frames in concrete or grout. Start by assembling the frame sections using the provided hardware, which includes corner brackets and 10-24 bolts, following the markings on each section. Install four-inch grouting straps into the threaded channels on the exterior or underside of the frame at two-foot centers, bending them as needed. Adequately block the frames to prevent deformation during the placement of concrete or grout. Place the frame into the opening and shim it to ensure a co-planar fit with the finished floor surface.

Pour grouting cement around the edges and center of the frame to form the recess floor. Be sure to keep the top of the perimeter frame free of cement. The recess floor must be flat and level, and the frame seats must be flush with the recess floor for a proper fit. Confirm all dimensions according to the enclosed drawings before the cement sets. The grids are designed to fit with a one-sixteenth inch gap around the frame. After the cement hardens, place an insert such as plywood in the opening to protect the frame edges.

Option two for level bed applications involves bolting the frames to the concrete floor. Pour the slab so that the top of the grid will be flush with the finished floor. Bolt the frames to the concrete floor, countersinking bolts as needed to prevent interference with grid placement. Pour grouting cement around the edges and center so that it is level with the inside horizontal leg of the frame. Both the recess floor and the frame leg must be flat and level to ensure proper installation.

For drainage bed applications, first ensure that the recess is deep enough to accommodate intermediate supports under the grid. Shim supports if the recess is sloped, as indicated in the sectional drawings. Assemble the frame sections using the provided bolts and nuts at the intermediate supports, especially for multi-section frames. Install four-inch grouting straps into threaded channels on the frame exterior or underside at two-foot centers, bending them as necessary.

Block the frames adequately to prevent deformation during concrete or grout placement. Place the frame into the opening and shim it for co-planar installation with the finished floor. Pour grouting cement around the edges and center of the frame to form the recess floor, confirming all dimensions according to the enclosed drawings before the cement sets. The grids are designed to fit with a one-sixteenth inch gap around the frame. After the cement hardens, shim the intermediate supports as needed and fasten the frames to the recess floor via welded tabs at the support intersections. Finally, place an insert such as plywood to protect the frame edges.

### **INSTALLATION OF THE GRIDS**

The grids may arrive as single lengths or as modules approximately one foot six inches wide in the walking direction. Assemble the grids by interlocking the modules according to the markings. Clean the recess thoroughly to remove all debris. Lay the grid into the recess centered, leaving approximately a one-sixteenth inch gap around the perimeter if the frame is properly installed. For grids with vinyl inserts, trim the inserts as needed during installation using a utility knife.

### **FINAL INSPECTION**

Regularly inspect the grids to ensure a proper fit, freedom from obstruction, and co-planar installation with adjoining floors, if applicable. For maintenance instructions, refer to the included Kadee Maintenance Instructions.