



## **INSTALLATION INSTRUCTIONS**

**Model: Entec-38**

**Type: Stainless Steel Grating and Frames**

### **INTRODUCTION**

Installing stainless steel grating, whether with or without an aluminum frame, is a straightforward process. However, attention to detail is critical to ensure a secure and stable fit. A well-executed installation prevents the grating from feeling loose, rattling, or becoming warped over time.

### **UNCRATING UNITS**

Begin by verifying that all grating boxes match the contents listed on the packing slip. Confirm that the correct number of units and, if applicable, frames are included. Ensure that shop drawings and the hardware package are present and complete. Inspect all items carefully for any signs of damage. If damage is detected, file a freight claim immediately and do not remove the items from the crate until the damage has been verified by an adjuster. If frames are included, the grating panels will typically be shipped inside their corresponding frames.

### **INSTALLATION OF FRAMES**

If frames are not provided, proceed directly to the grating installation section. Otherwise, begin by inserting 4-inch grouting straps into the threaded channels located on either the outside or underside of the frame. These straps should be placed at two-foot intervals and bent as needed. Assemble the frame sections using the hardware provided, following the markings on each section. Make sure the frames are adequately blocked to prevent inward deformation due to the pressure from wet concrete or grout.

Position the frame into the prepared opening and shim as necessary to ensure the grating surface will be flush and level with the surrounding finished floor. Pour grouting cement around the edges of the frame, ensuring the top of the perimeter frame remains free of cement. It is important that the recess floor be completely flat and level to support proper installation. Before the cement sets, verify that all dimensions match those shown on the enclosed drawings.

For locking devices, place the grating panels into the recess in their correct configuration. The panels will be marked for easy placement. Mark the locations of the locking devices, remove the panels, and drill holes into the concrete for the lead anchors. Install the anchors into the holes. Epoxy may be used to provide additional holding strength. Once the cement has hardened, insert a protective layer such as plywood into the opening to shield the frame edges during the remainder of the installation process.

## **INSTALLATION OF GRATING (WITH FRAME)**

To install the grating within a frame, position the grating panels inside the frame and align all locking mechanisms. If the unit contains multiple panels, be sure to arrange them according to the configuration shown on the enclosed drawings. Use the supplied Allen wrench to tighten the lockdown bolts securely, but do not fully tighten them at this stage. Once the last bolt has been tightened, return to each bolt and retighten them evenly to eliminate any slack or warping, similar to the method used when tightening lug nuts on a wheel. Some minor misalignment of surface wires and support rods may occur, which is acceptable within specified tolerance limits.

If the recess floor is properly prepared—flat and level—the grating will sit tightly with little to no rattling or deflection. After installation is complete, inspect the grating regularly to ensure that all bolts remain secure, the grating remains flush with the surrounding floor, and that the surface remains free of obstructions. Refer to the Kadee Maintenance Instructions included in the packet for ongoing care.

## **INSTALLATION OF GRATING (WITHOUT FRAME)**

When installing grating without a frame, begin by pouring a concrete slab to a depth that allows the top of the grating to sit flush with the surrounding floor surface. Position the grating panels into the recess in the proper configuration, as marked. Mark the locations for the locking devices, remove the panels, and drill holes in the concrete for the lead anchors. Insert the anchors into the holes, using epoxy if desired for added holding strength. Replace the grating panels into the recess and align the lockdown holes with the installed anchors.

Using an Allen wrench, tighten all lockdown bolts securely, but not completely. Once the final bolt is tightened, go back and evenly retighten each bolt to prevent warping or slack. As with framed installations, slight misalignment between surface wires and support rods may occur but remains within acceptable tolerances. A properly prepared, level recess floor will ensure the grating fits snugly and minimizes rattling or deflection. Following installation, the grating should be inspected regularly to ensure all components remain tight, level, and obstruction-free. The Kadee Maintenance Instructions provided should be referenced for continued upkeep.