



## INSTALLATION INSTRUCTIONS

Model: KD98

Type: SSS Clean Tread – Stainless Steel Grating and Frames

### INTRODUCTION

Thank you for selecting Kadee Industries. With proper installation and care, your KD98 stainless steel grating system will provide years of reliable performance. These instructions will guide you through uncrating, frame installation, grating placement, and securing the panels, whether you are using a Kadee-supplied frame or a customer-provided recess.

### UNCRATING AND INSPECTION

Before beginning installation, check all crates and boxes against the packing slip and shop drawings. Confirm that you have received the correct number of grating panels, frames, and hardware (if applicable). Inspect all items for damage. If any damage is discovered, file a freight claim immediately and do not remove the items from the crate until verified by an adjuster. Grating panels are matched to their specific frame sections and should remain paired accordingly.

### FRAME INSTALLATION

*If your installation does not include frames, proceed to **Grating Installation**.*

Review the provided shop drawings for correct recess depth. The recessed floor may be sloped, but the frame must be shimmed level and flush with the finished flooring. Grating panels can be removed by loosening the hidden lockdown clips with an Allen wrench. Larger systems may include multiple frame sections marked for assembly. Fasten all frame sections together using the supplied hardware.

For aluminum frames, insert 4" grouting straps into the threaded channels along the exterior or underside of the frame at 24" intervals. Stainless steel frames will have straps pre-welded beneath the perimeter angles. Bend straps as needed. Block the frames securely to resist concrete pressure, as excessive movement can misalign lockdown bolts.

Set the frame in place, shim it level, and ensure it is co-planar with the finished flooring. Pour grout around and inside the frame to create a level recess floor, keeping cement away from the top edge of the perimeter frame. Confirm layout dimensions before the cement sets. Once cured, secure the frame to the slab through the welded intermediate tabs. Place a protective insert (e.g., plywood) into the opening after the pour to guard the frame edges.

## **GRATING INSTALLATION WITH HIDDEN LOCKDOWNS**

### **For Drilled and Tapped Supplied Frames:**

Lay the grating panels into the installed frame, aligning the hidden lockdown bolts with the threaded channels (aluminum) or tapped holes (stainless steel). Match the panel configuration to the supplied drawing. Tighten all bolts lightly at first using the Allen wrench, then tighten them fully in a crisscross pattern to eliminate slack or warping. If installed over a flat, level recess floor, the panels should rest securely with minimal rattling.

### **For Level Bed Installations or Customer-Supplied Frames:**

Place the panels in their correct layout. Mark each lockdown location on the recess floor or existing frame. You may use a wire dipped in paint inserted through the surface wires and saddle clip to mark precise spots. Remove the grating and drill holes for the lead anchors (epoxy is recommended for added security). Tap holes in metal frames as needed. Reinsert the grating and align the bolts to the anchors. Do not fully tighten bolts until all panels and fasteners are in place and aligned.

## **OPTIONAL INSTALLATION METHODS**

### **Alternate Drilling Without Panel Removal:**

Carefully spread surface wires to access the saddle clip. Use a slow-speed drill and an 11/64" bit (or 5/32" for aluminum). Protect surface wires by sliding a 1/4" washer over the drill bit before drilling through the saddle clip into the frame.

### **Welded Slotted Tab Lockdowns:**

Insert anchor bolts into the welded tabs. Use clear tape to hold bolts in place while setting the panel to prevent bolts from falling out.

### **Visual Lockdown Assemblies:**

Visual lockdowns feature a fixed welded block inside the grating and a 5/16-18 stainless steel socket screw. Use a 1/4" Allen wrench for tightening. To install in jobsite frames, position the panel, drill a pilot hole using the lockdown block as a guide (23/64" bit), enlarge with a 17/64" bit, then tap with a 5/16-18 tap. Install the first bolt loosely to stabilize the panel, then install a second opposite bolt before completing the remaining lockdowns. Once all are loosely installed, tighten them in a star pattern, as you would a car tire.

## **FINAL CHECK**

After installation, inspect the grating regularly to ensure all bolts remain tight, and the system stays level and free of debris or obstruction. Refer to the included Kadee Maintenance Instructions for ongoing care.