

# 1-13/16" Thick Grille Mats

## Installation Instructions

*Proper installation is necessary to ensure that your warranty will be honored.*

Before any installation is started, be sure to verify:

- Type of grid and frame
- Size and thickness of grid and frame
- Product color
- That there are no visual defects or damage from shipment

### **1-13/16" RECESSED Mat:**

1. Prepare a recess (block out) in the concrete flooring at least 1" deep for the frame in which the mat will sit. Block out an area 6" wider than the outside dimensions of the frame in both the width and length directions; this will allow 3" on all sides to maneuver the frame into place. Consult your shop drawing for proper depth (above) and overall outside frame dimensions.
2. Set the frames into position within the recess. Mark the hole locations on the concrete. Remove the frames and drill holes in the floor for the anchors. Clean the concrete dust away and install the anchors. Drill holes in the frame at 18 to 24-inch intervals for the bolts/screws. Countersink the holes so that the screw heads are flush with the frame. (This prevents the mat from riding up on the head of the bolt/screw).
3. Secure the frame to the concrete bed using anchor bolts or screws of choice that are set into the floor vertically. Stainless steel screws and plastic anchors may also be used.
4. If needed, shim under the frame sections so the top edge of the frame is flush with the finished floor and level.
5. Pour concrete (using non-shrinking grout – sand coat is not recommended) around the edges of the frame. There must not be any free space between the grid and frame (or, if applicable, the pan) and the liquid cement.

6. Level the concrete. Frames without pans use a board slightly smaller than the frame opening and level the concrete in each section to be flush with the leg of the frame. Make sure the concrete (using non-shrinking grout) is smooth and level with the lip of the frame so the grille mat lies perfectly flat and will not shift, flex or bow.
7. Before the concrete hardens, verify that the dimensions are correct, frame is square and level, and the frame corners are at correct angles so the mat will fit properly. Verify the outside frame dimensions are identical to your shop drawing. Ensure that there is no traffic across the frame while the concrete fully dries.
8. After concrete has hardened, install plywood into the recess to fully protect the frame edges until just before the entrance is opened and the mats are installed.
9. Clean all frames and recess before installing mats; debris cannot be tolerated between the frame and mat.

### **1-13/16" Mat Field Fabrication:**

1. Place mat to be cut on sturdy tabletop surface. On one end of the table, fasten a straight edge bar or angle piece to serve as a stop edge for one end of the product. Be sure bar is square on the table.
2. Butt one end of the mat tight to bar fastened to table. Secure width of mat (traffic direction) to the table with screws in between drain holes of hinge.
3. Measure to desired length to be cut and mark product with fine tip black marker. Remove black vinyl cushions on the bottom of the grille mat if needed for level cutting surface.
4. If trimming only  $\frac{1}{4}$ " or so, cut carefully with a portable band saw. Prior to cutting it would be ideal to clamp an additional bar or straight edge to top of product to hold mat steady. Also, remove the set screws from the end of the mat to prevent damage to the saw blade. Be sure to clamp a straight edge to product prior to cut. If trimming more than  $\frac{1}{4}$ ", a circular saw with a sturdy carbide-tipped blade would work just as well as a portable band saw. Prior to cutting, it would be ideal to clamp an additional bar or straight edge to top of product to hold the mat steady. Use a straight edge or angle piece for saw to travel against to achieve a straight cut. Be sure to clamp a straight edge to product prior to cut.
5. After cut, clean any smudges or markings with lacquer thinner. Remove set screws from cut-off pieces and reinstall new set screws as needed to secure treads in rails. Brush out ends of tread, then singe with a propane torch (on low setting).
6. Clean up product and return to service.

**1-13/16" Replacement Instructions:**

1. Remove existing grille mat(s) from the recessed area. Do not remove the frame if one exists.
2. Thoroughly clean all debris from the level bed pit of the frame. Use a heavy-duty scraper to aggressively scrape accumulated dirt from concrete surface. If pit is not properly cleaned, new grids will rock in place or shift and void warranty.
3. Thoroughly sweep or use a Shop-Vac to clean out loose debris.
4. Once recessed pit is fully prepared, remove replacement mat(s) from packaging and piece into place.
5. The new grille mat is ready for years of use.