

# Design-Grid - 3/8"

## Open-Back Vinyl Grating

### Installation Instructions



#### 1. GENERAL

Before beginning, be sure to verify the product type, size, thickness and color are correct.

Note: The material must be inspected for obvious defects or damage; if found, do not install. Amarco Products will not accept returns or refund any re-installation costs if obviously defective products are installed. Failure to follow these installation instructions may void your warranty.

It is recommended that the well frame is to be installed while related work is in progress. The Design-Grid matting is to be installed after all trades have finished work on the project and after the final cleaning.

#### 2. CONDITIONING

Unpack and unroll the matting and lay in a clean, dry, protected area that is 65°F ±10°F, allowing the matting to acclimate and relax. Depending on the duration of storage, this could take up to 24 hours.

When handling mats at any time, take care to avoid dragging or rough handling, thus preventing possible stretching or distortion.

#### 3. TOOL CHECKLIST

- Tape measure
- Straight edge
- Concrete drill bits
- Screwdriver and/or driver bits
- Chop saw or hack saw
- Caulk line
- Utility knife
- Hammer
- Drill
- Plastic anchor bolts
- Stainless steel counter-sunk screws

#### 4. LAYOUT

Matting must be designed and installed so that the top ribs are laying across traffic flow, and the smooth ribs must face down to the floor. Beware of pattern repeat

#### 5. INSTALLING PERIMETER "J" or "R" FRAME

Areas should be clean, level, and free of debris.

Install appropriate "J" or "R" frame around entire perimeter using plastic anchor bolts and stainless steel counter-sunk screws (screws and anchors not included).

If required, join the "J" frame sections by tightly butting the two ends together. For 90° corners, miter the end of each length to be joined at 45°, keeping the corners tight.

Correctly position and align the "J" or "R" frame. Ensure that it is level with finished floor, the corners are square (90°) and it is correctly positioned, parallel with the doorway.

Level (using wedges), align and firmly secure the frame. Drill holes in the correct position, and vacuum clean the dust (with a suitable HEPA filter). Install plastic anchors and use appropriate stainless steel counter-sunk screws to properly secure the frame.

**Note:** If an "L" frame threshold is in place at the entrance door, it may be used in place of an "R" or "J" frame at leading edge of mat. Abut frame sections tightly to "L" frame in that situation.

#### **6. INSTALLING A "T" DIVIDER**

If required, cut to size and correctly position the "T" Divider between sections of the Design-Grid and perpendicular to the traffic directions. Make sure both ends are covered by the "J" frame. Drill holes in the "T" Divider at 18" to 24" intervals for screw. Countersink the holes. Use plastic anchor bolts and stainless steel counter-sunk screws to secure in proper location.

#### **7. SUBFLOOR SMOOTHING**

Skim-coat the floor to be flush with the bottom of the frame using a suitable commercial-grade patching compound that meets the requirement of ASTM F710, including a minimum compressive strength of 3000 psi.

#### **8. PROTECTING THE FRAME**

If required once the frame is installed, use a temporary plywood filler to protect the frame, recess and patching compound from construction traffic. Ensure the area under the overlapping lip of the frame is filled, so as to protect the lip from damage.

#### **9. MAT INSTALLATION**

Remove all of the protective plywood, fitted at the time of the frame installation. Scrape and vacuum the well clean to remove all loose debris including from under the lip of the frame.

Place the panels in position. Panels must be laid out with the serrated top ribs facing up and running perpendicular to traffic direction, smooth ribs must face down to floor. Butt panel sections together tightly, but do not stretch, bunch or pull the material.

Beware of pattern repeat. The matting is supplied with three vinyl ribs on each side. For aesthetic purposes when butting one piece to another, remove one rib on one piece and two ribs on the other piece (if size of area will allow, otherwise a "T" Divider is recommended between sections). When installed, this practice will avoid six ribs in a row and will provide a continuous look to the material.

Using a utility knife and a straight edge, trim panels to fit inside frame and beneath the protective top lip of the frame. Allow a 1/8" gap between finished mat and the inside edge of the frame below the lip on all sides for expansion. Do not concern yourself if the cut you have made passes through a bottom rib. Do not use bottom rib as your guide. Take particular care to keep the blade pressure light. Too much pressure can cause the blade to skate or break. Making several light passes works best.

Position both ends under edge of frame, and slide into position so that leading edge is under the lip of the frame. Inspect installation to ensure there are no gaps and that all panels are lying flat. Re-trim as needed.

# Maintenance Instructions



## 1 PRECAUTIONS

Follow the facility's Standard Operating Procedures (SOP). All Safety Data Sheets (SDS) and product label instructions must be read, understood and followed prior to using any product.

## 2 DAILY CLEANING

Use a vacuum cleaner with a beater brush to remove the surface dirt. If stone or salt particles are embedded between the surface ribs, remove using a blunt instrument (screwdriver or similar).

## 3 WEEKLY CLEANING

Perform the daily cleaning first then pre-spray the surface of the mat with an all-purpose cleaner/degreaser, paying particular attention to areas of heavy soiling.

Remove chewing gum by using a recommended gum remover.

For abundant salt build up, apply a pre-soak solution of vinegar and water (1:20) to the surface prior to manual or machine cleaning.

Perform hot water extraction (preferred) or manual cleaning as described below:

- a) Hot water extraction: Following pre-spray, clean top surfaces in the direction of the top ribs using a hot water extraction machine or similar. In areas of ingrained dirt on the etched patterns of the ribs, make additional passes until completely cleaned. Use clean water only. Commercial truck mounted hot water carpet extraction machines provide the best results and quickest drying times.
- b) Manual cleaning: Clean the top surface using a long-handled nylon bristle deck scrub or similar brush that will not leave fibers on the mat. Scrub in both directions to clean the top of the ribs as well as the etched tread surface. Rinse with clear cold water. Allow to dry prior to use.

## 4 PERIODIC CLEANING

Clean periodically as needed, depending on the traffic density and level of soiling.

Carefully lift and remove each section of the Design-Grid, one at a time. Start from the center of the installation and use a blunt instrument (screwdriver or similar tool) to lift the sections of the mat. Important: do not over stretch the sections of the mat during removal.

Roll up and tag each section to identify its location and orientation in the mat recess.

Vacuum the recess thoroughly, ensuring all stones or grit particles are removed from the recess and especially around the frames. The aluminum edging/framing may be cleaned with soap and water and allowed to air dry.

Replace the matting sections as originally laid, working from the edges to the center of the installation. When installing the sections at the edge of the frame, be sure to slide them under the frame lips.

## 5 ICE MELTING BRINE REMOVAL

Foot Grilles that use ice melting "salts" may have a buildup of ice melt brine after a while. This is best removed using a concentrate "Concept 914" or similar following the written instructions including the dilution ratio. Spray directly onto the Design-Grid and scrub clean using a clean stiff nylon brush and rinse with clean water.

**Note:** These instructions supersede any verbal or written instructions from Amarco Products representatives, and must be followed in order for the warranty to remain in effect.