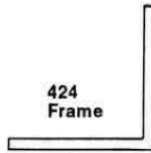


Installation Instructions

Aluminum Foot Grille - 1-5/8" - Recessed Floor Mat

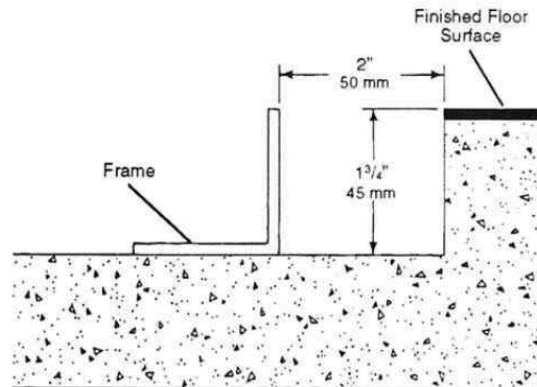
#424 Grate Frames



1. Prepare the floor recess

Prepare a recess in the concrete flooring where the grate will be located. The recess should be at least:

- 1³/₄" (45 mm) deep
- 4" (100 mm) wider than the outside dimensions of the frame — this allows 2" (50 mm) on all sides to maneuver the frame into position



2. Drill anchor holes

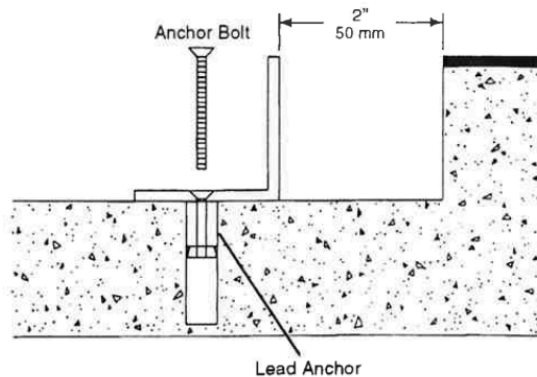
The grate frames should be secured to the concrete floor using anchor bolts into lead anchors that are set into the floor.

Drill holes in the frames at about 2-ft (6-m) intervals for the bolts. Countersink the holes.

Set the frames into the recess at the appropriate locations to position the grate(s). Mark the hole locations on the concrete.

Remove the frames and drill holes in the floor for the anchors.

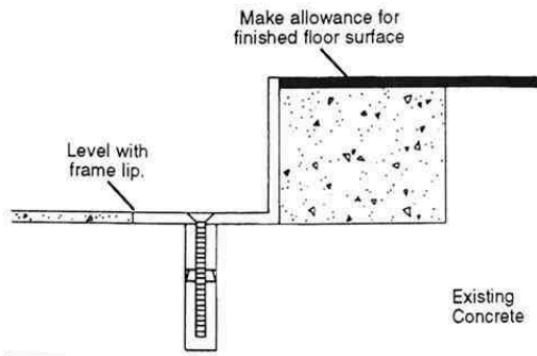
Install the anchors using an anchor setting tool.



3. Secure frames in the recess

Reinstall the frames. Secure them to the floor with 1/8" x 1 1/2" anchor bolts into the lead anchors.

NOTE: If necessary, shim under the frame sections so that the top edge of the frames will be flush with the finished floor surface, and the frames are level.

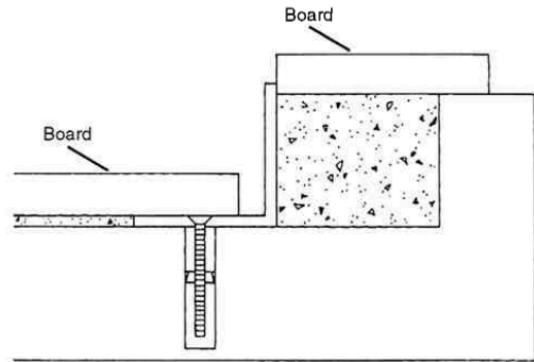


4. Pour concrete

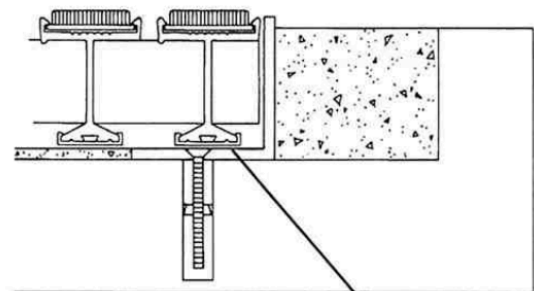
Pour concrete (or grout) around the edges and in the center of the frame.

5. Level the concrete

Cut a board just slightly **shorter** than the width of the frame.
Use the board to smooth and level the concrete.



Be very careful that the concrete is absolutely smooth and level with the inside lip of the frame. This will allow the grate to lie perfectly flat and avoid rocking.



Level the concrete so the grate will lie flat when installed.

6. Recheck all dimensions

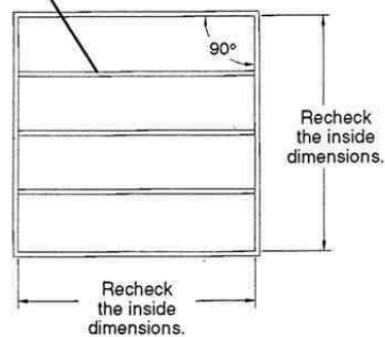
Before the concrete sets, recheck that:

- The frame sides are straight
- The frame corners are at correct angles so the grate will fit properly
- All inside dimensions of the frame are accurate according to drawing measurements

If the frame bows inward, use spreaders inside the frame until the concrete is thoroughly set.

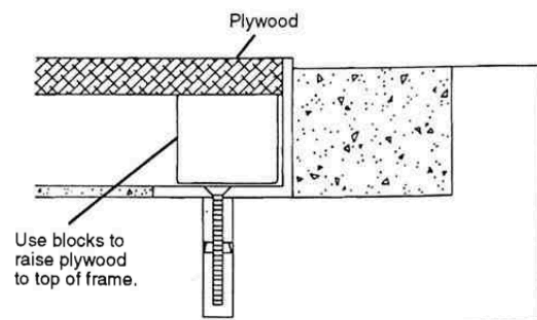
IMPORTANT: The grate is made to fit snugly into the frame according to the drawing.

Use spreaders if frame bows inward.



7. Protect the frame edges

When the concrete has hardened, install plywood or other material in the recess to protect the frame edges from damage until the grate is installed.



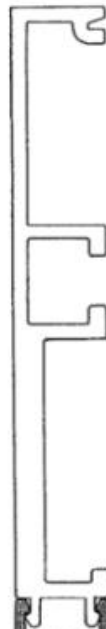
INSTALLATION GUIDE

Frame Option #421

For use with or without Metal Drain Pan #422



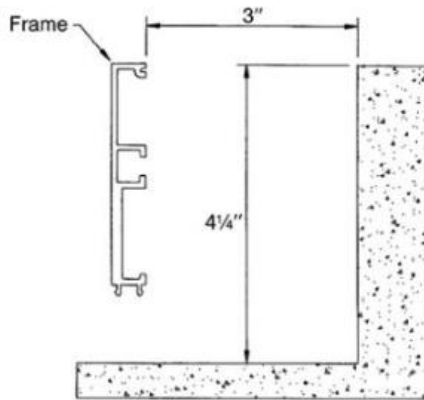
No. 421



No. 422
With
Pan
Adapter

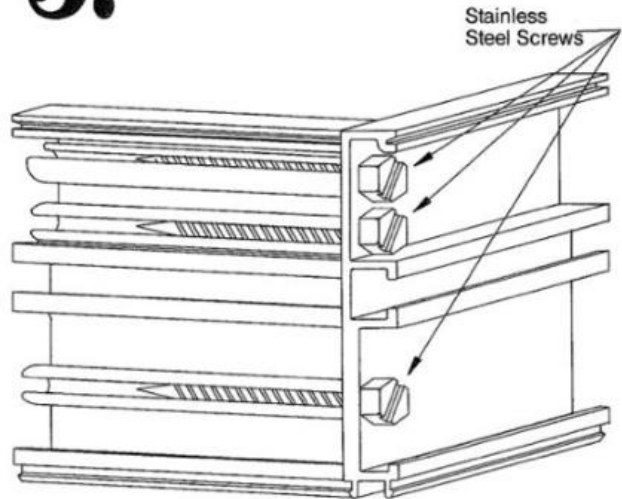
1.

Recess must be provided in concrete flooring at location of grate. Recess should be deep enough to allow construction of the desired pit, but no less than $4\frac{1}{4}"$, to allow the cross supports to fit under the grate. The length and width should be 6" greater than the frame dimensions. This will allow 3" on all sides to maneuver the frame into position and sufficient concrete strength to support the grate.



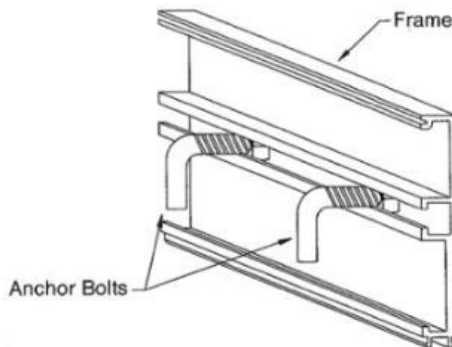
3.

Assemble frame with the stainless steel screws provided.



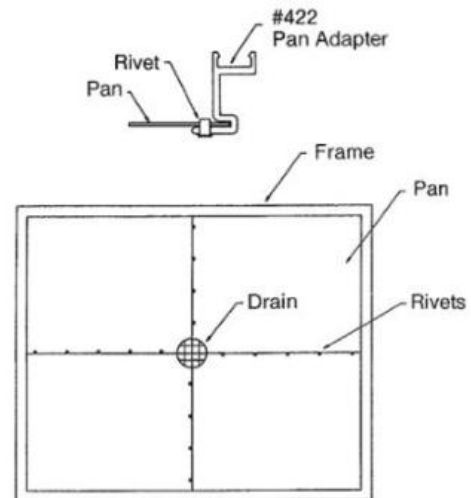
2.

Install anchor bolts ($\frac{1}{4}" \times 3"$) using brass nuts provided, by sliding into frame from end. Space at approximately 2 foot intervals on all four sides. Anchor bolts may be bent to fit a recess if necessary.



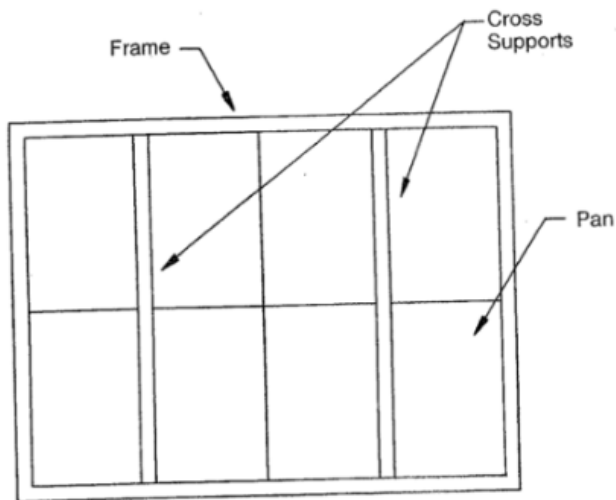
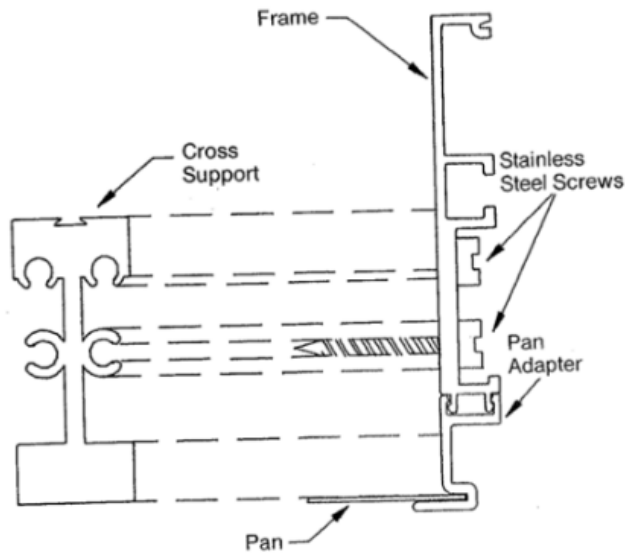
4.

Install pan material into lip on frame. Rivet pan material to pan adapter lip with pop rivets provided. If pan is in sections, pop rivet these sections together. Locate drain and cut hole in pan. Seal joints and drain as required with silicone or caulk.



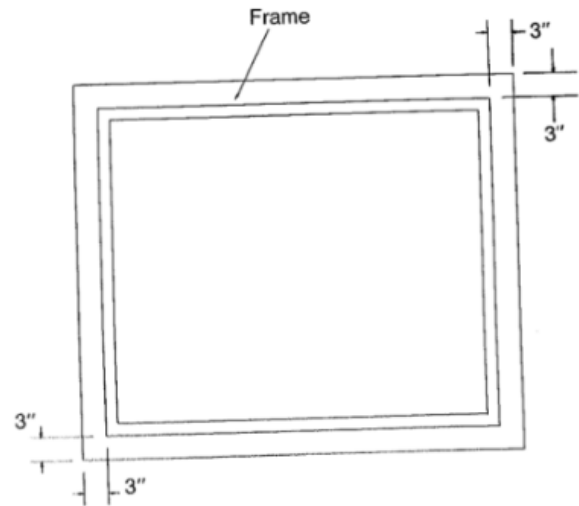
5.

Install cross supports on frames that are 4 foot x 4 foot or larger. Fasten cross supports to frame with the stainless steel screws provided. Installation should be done after installing pan sections.



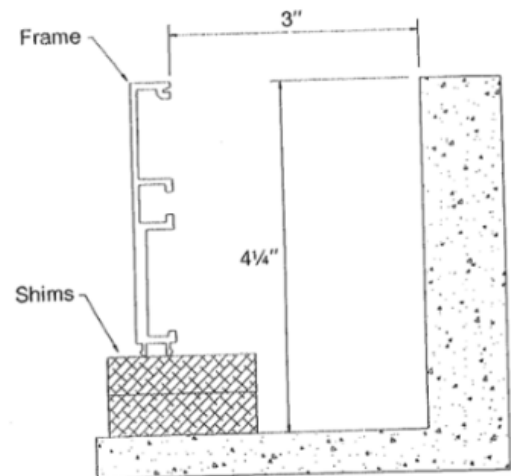
6.

Locate assembled unit in opening at desired position.



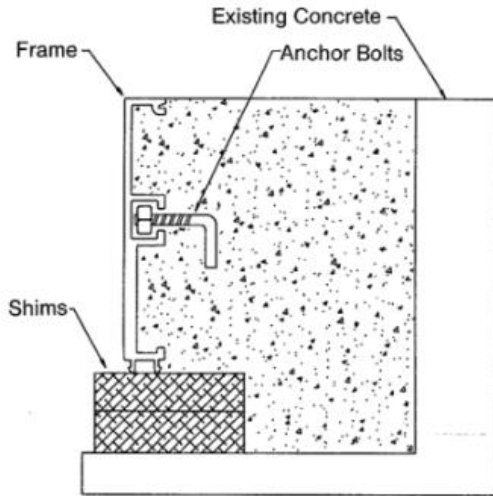
7.

Use wooden shims to level frame to position flush with final level of finished floor surface.



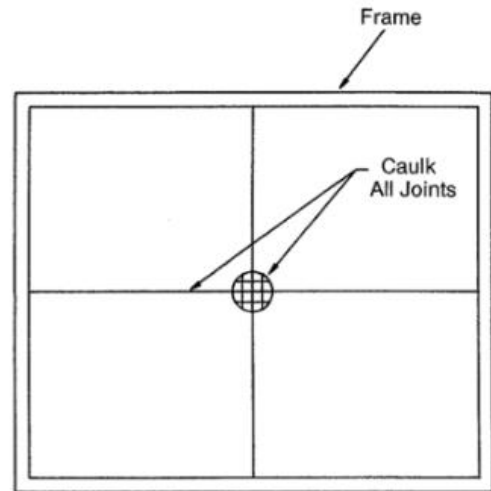
8.

Pour cement mortar around edges and trowel it in so that when hardened it provides proper support for frame and anchor bolts.



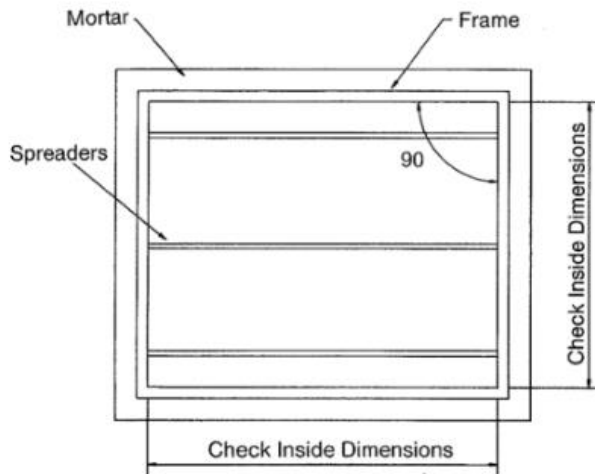
10.

If drain pipe is used with drain pan, connect pan to drain pipe. Caulk all joints and connections to prevent leakage.



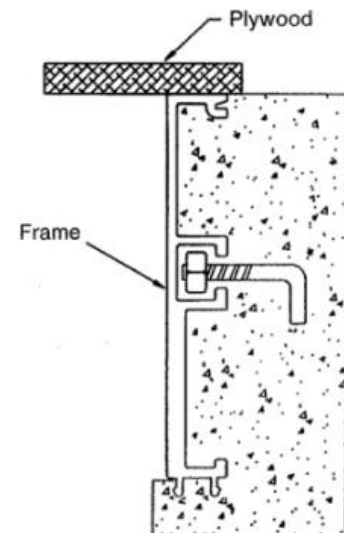
9.

Before mortar is allowed to set up, be sure that frame sides are straight and that corners are at perfect 90 degree angles so grating will fit properly. Check inside dimensions of frame against drawing measurements to be sure they are accurate. Remember — the grate is being made to fit snugly into the frame according to the drawing. If frame tends to bow inward use spreaders.



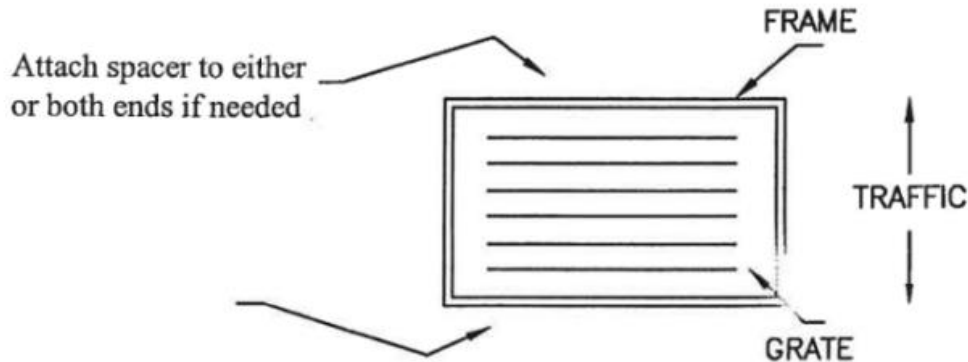
11.

Plywood or other material should be placed on top of frame to protect frame edges from damage prior to installation of grate at some later time.



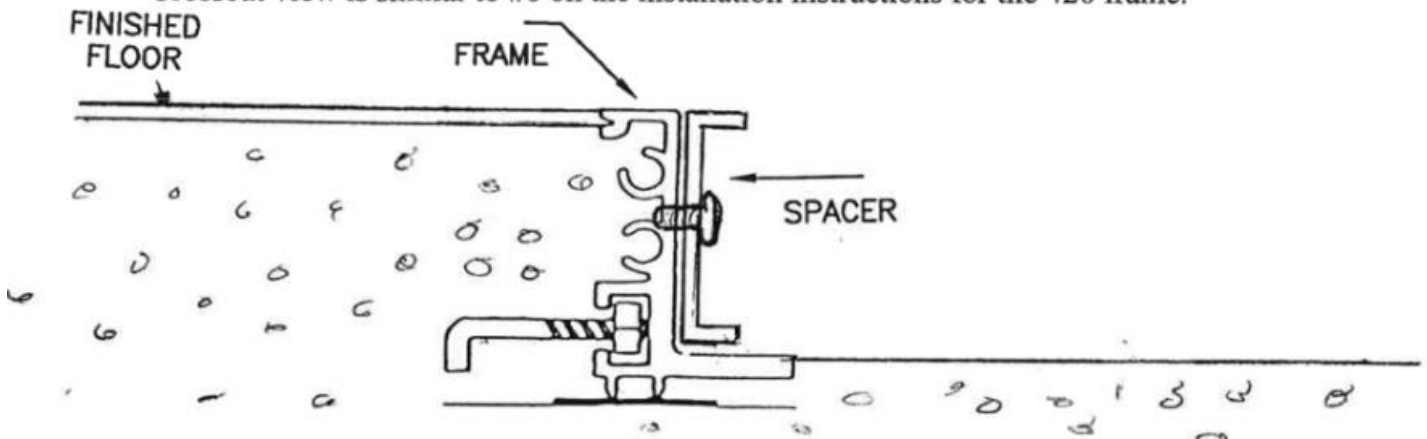
Spacer Installation Instructions:

To install, place spacer in the appropriate location (spacer runs parallel with the grating rails and is attached to the frame at the leading or following edge of the traffic direction).



When placing the spacer, make sure that the smooth 1 5/8" face is placed next to the inside frame edge, the 1/2" edge is flush with the frame edge throughout the entire length, and the ends of the spacer are evenly placed.

Crosscut view is similar to #6 on the installation instructions for the 420 frame.



Secure in place to the frame by drilling approximately every two feet. Use a #14 drill bit to drill holes through the spacer and to the frame piece. It is imperative that the spacer not move while drilling. Before attaching the spacer to the frame with enclosed hardware, make sure that all debris is removed between the face of the frame and the spacer to insure a proper fit.

Aluminum Foot Grille – 1-5/8" – Recessed Floor Mat

Perfec Grate Specifications

MATERIAL MAKE-UP

- Perfec Grate recessed floor mats are made from 6063-T52 aluminum.
- The Perfec Grate floor mat consists of durable "I"-beam construction secured with key-lock bars on 6" centers. Both mechanically locked and welded in place for maximum strength.
- Perfec Grate Recessed Mat Thickness: 1-5/8"
- Blade Spacing does not exceed 1/8"
- Tread rails shall spaced 1-1/2" on center.
- [Insert Options](#) for Perfec Grate Recessed Floor Mats Include:
 - Carpet Inserts
 - Poly Brush Inserts
 - Vinyl Tread Inserts
 - Vinyl Abrasive Inserts
 - Serrated Aluminum Treads
- Standard load rating for the Perfec Grate is 300 lbs./wheel rolling load.
- Perfec Grates require a recessed frame.
- Frame depths for recessed floor mats are available in several options from 1-3/4" (standard applications) to 4-1/8" (deep pit applications).
- Radials and contours are possible.
- Please consult a sales representative for specific product line drawing profiles.

FORMAT

Recessed Foot Grille Grate

INSTALLATION

Recessed

Carpet Inserts



Charcoal



Black



Midnight



Sandy



Espresso



Java



Blue

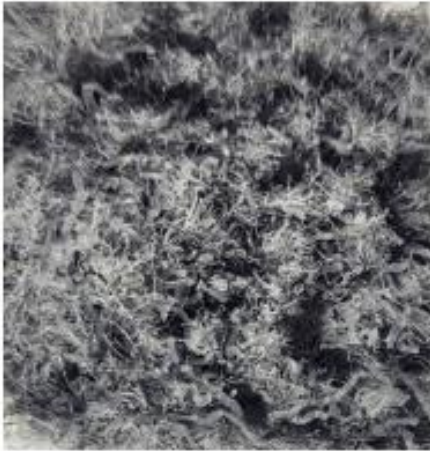


Mauve



Black Cherry

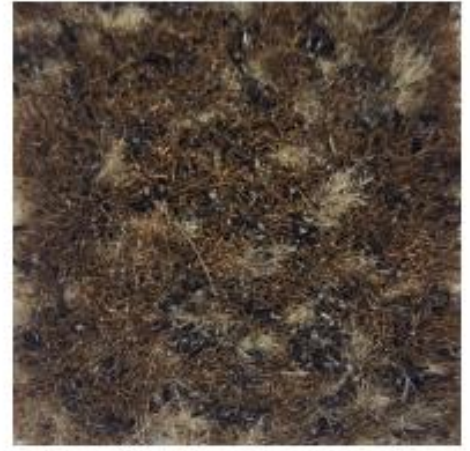
Poly-Brush Colors



Grey



Black



Brown

Vinyl Inserts



Black



Grey



Beige



Blue



Brown

Serrated Aluminum Treads

****only available if you alternate with a different tread**



LEED DATA
ENTRANCE SYSTEMS

Recycled Material

- Aluminum material in our entrance systems contain a minimum average of 50% pre-consumer recycled material.
- Our santoprene and poly in the hinge of our rubber hinged mat contains an average of 80% pre-consumer recycled material.
- There is an average of 30% pre-consumer recycled material in all our vinyl fillers, borders, and vinyl inserts.
- Our abrasive brush and carpet inserts contain 50% pre-consumer recycled material for the backing of the insert.
- There is not any post consumer recycled material in our products.
- All Reese roll up mats and grates comply with EQ credit #5.



Vicky McCallum
Office Manager
Reese Enterprises, Inc.



Claims and Warranty Information

Claims:

- Goods in transit are at the risk of the purchaser for loss or damage.
- Claims for shortage or improper fulfillment of orders must be made within two weeks from the date of receipt.
- If goods appear defective, the purchaser should discontinue their use and notify Mad Matter at once so the matter can be investigated.
- Mad Matter does not assume liability for consequential damages or delays and claims for labor will not be allowed.
- Mad Matter, at its option, shall repair or replace any part or component part which shall prove defective to the original purchaser.

Warranty:

- All Mad Matter weatherstrip and threshold products are guaranteed for a period of FIVE YEARS from the date of delivery against defects in material and workmanship.
- Self-adhesive weatherstripping must be installed within six months of the delivery date in order for the warranty to be valid.
- Defective goods will be replaced or repaired at the discretion of Reese Enterprises. No claims for damage incurred or work done thereon will be allowed.
- Cost of replacement shall not exceed the original purchase price.
- Warranty claims must be submitted in writing within the warranty period.
- Reese does not assume liability for defects or damage arising from improper installation, lack of recommended maintenance, misuse, modifications, use in incompatible products, or ordinary wear and tear.

Cancellation Charges:

- Orders for special products and non-standard sizes are subject to a cancellation charge based on labor and material used prior to cancellation.

Return Goods:

- No merchandise will be accepted for return without prior written approval.
- Specially fabricated products, non-standard drilling, and non-standard sizes are not returnable.
- Returned material must be of a recent sale (less than a year from the invoice date), standard stock sizes, and in resalable condition.
- All returns are subject to a 35% restocking charge plus freight charges.



Maintenance Instructions for Carpet Treads

The carpet insert in your Perfec Clean entry mat or grate system will retain its beautiful new appearance for many years if a simple plan of regular maintenance is followed. It is important to establish this plan when the product is new, because the longer the soil remains in the carpet, the more difficult it is to remove. The type and schedule of maintenance is dependent upon the location, the amount of traffic and the type of soil. We recommend the following:

1. **Inspection for spots and stains** should be a daily routine. Remove all spots immediately to avoid permanent damage to carpet fibers. If the spill is a liquid, blot up as much as possible with a soft absorbent paper towel or clean white cloth. If the spill is semi-solid, scrape with a spoon or spatula and then blot with a damp sponge. Work from the edge of a spot to the center to keep the problem from spreading.

Two types of spot remover can be used. For oily stains such as tar, paint, grease, etc. a nonflammable dry cleaning solvent works best. However, caution should be taken to first test for color fastness. Put a few drops in an inconspicuous area, then press the area with a clean white cloth for 10 seconds. If there is evidence of loose dye, do not use. For other spills such as coffee, tea pet stains, etc. a dry soil extractor can be used. Follow manufacturer's directions for this product.

If these methods are unsuccessful, replacement strips are available.

2. **Vacuum Schedule:** A heavy duty vacuum cleaner with a rotating brush is the most effective way to routinely clean the carpet in your entry mat or grate system. By vibrating the fibers, this type of vacuum not only cleans the surface of the carpet, but removes soil that is embedded into the pile. It also aids in keeping the pile upright for longer lasting beauty. Clean heaviest traffic areas weekly or as necessary. Caution should be exercised when vacuuming near the carpet insert ends to avoid pulling the strips out of the tread rails.

1. **Carpet Cleaning Schedule:** Carpet should be deep cleaned when vacuuming will no longer remove the soil. This may be monthly, quarterly, or longer depending on soil and traffic conditions. Systems such as aerosols, foams, hot water extraction, or shampoo will work, but may leave a sticky detergent residue which will accelerate resoiling. Be extremely careful when selecting a method of this type. We recommend a dry cleaning system for several reasons:
 - a. Delayed resoiling
 - b. Convenience. Carpet remains dry allowing you to clean when and where you want.
 - c. Safe. No carpet damage from dye bleeding and reduces possible accidents caused by slipping on wet carpet.

Maintenance Instructions for Serrated Aluminum Treads

Your Perfec Clean serrated tread mat or grating will retain its handsome appearance for years with a minimum amount of maintenance. The location and traffic load will determine the frequency of cleaning required. We recommend the following cleaning procedures:

The serrated aluminum tread should be cleaned as necessary with a soft bristle brush or a damp mop using mild detergent.



Maintenance Instructions for Polybrush Treads

Weekly

Vacuum with upright type vacuum equipped with good beater brush. May use a stiff hand brush to remove lodged debris not removed by vacuuming.

Oil based soil and stains may be removed using a solvent based carpet cleaner.

Water based soil and stains may be removed using a all-purpose neutral cleaner.

Monthly

Shampoo with rotary shampooer, extractor, or other commercial cleaning machine. More frequent cleaning (weekly or monthly) is dependent on the amount of foot traffic utilizing your entry mat.

For more unusual situations, such as store remodeling, an immediate shampoo cleaning may be deemed necessary upon completion of entire project.

Note:

The above brush tread maintenance instructions are suggestions to maintain and enhance the look of your entry mat. Conditions regarding weather, foot traffic, and general use will vary.

Maintenance Instructions for Vinyl Treads

The vinyl Insert tread should be cleaned as necessary with a soft bristle brush or damp mop using a mild detergent and water, to remove soil. Avoid using strong solvents, especially petroleum based as they mar the vinyl surface.

The mat or grate sections should be removed from their recess and this area cleaned periodically to remove accumulations of dirt trapped by the Perfec Clean system. The location and traffic load will determine the frequency of cleaning required