

AMERICAN® STAIR TREADS

152 Rollins Avenue #102

Rockville, MD 20852

800-762-9010

240-780-3309 (fax)

<http://www.americanstairtreads.com>

Metal Stair Treads: Installation Instructions

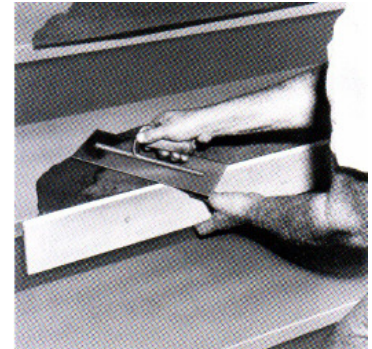
GENERAL INSTRUCTIONS

Installing metal stair treads is easy when the installation instructions described below are followed. Before beginning, the stairway must be broom-cleaned and checked for soundness. Any loose steps should be fastened down, wood treads nailed and so forth, so that there are no large gaps, jagged edges, broken stairs, etc.

These stair treads are available with holes pre-drilled and countersunk for fasteners. They can be manufactured in a myriad of lengths so that they will appropriately fit any individual stairway; this eliminates any need for cutting and fitting on the jobsite.

INSTALLATION INSTRUCTIONS

Worn Stairs (Concrete, Terrazzo, Marble, Slate, etc.): Leveling compound should be applied over dished or worn stairs to provide a level-bearing surface for proper installation of the metal stair treads. Smooth steps such as marble, terrazzo, tile, metal, etc., should be roughed up to insure good adhesion. The best methods to rough up the surface are grinding, sandblasting or mechanical scarification. After the aforementioned preparation, remove all dust and loose particles by means of a heavy-duty vacuum cleaner. All other types of surfaces need only to be thoroughly cleaned. Simply mix compound in mortar pan, (directions for mixing are shown on the drum) apply and trowel to a feather edge. Troweling against a straight-edge board held to front of Step (see photo to the right) provides a square edge. As soon as Step is leveled, the board may be moved to the next step, as no form is needed. Begin at top of stairs and work down. Compound dries and is ready for treads in 2 to 4 hours.



American Stair Treads recommends using Tapcon Screws to fasten down metal stair treads. This is the most popular method of securing the treads. Tapcon screws offer many advantages such as: No layout or hole-spotting required, Fast & easy installation, Removable, Use with masonry drill bit for maximum holding power. Tapcon screws have a recommended embedment of 1" to 1-3/4".

Tapcon screws can be used in concrete, block, and brick. No other fasteners are required. The Tapcon screws are made of case hardened carbon steel, with RIE coating for corrosive environments. They are furnished in a flat head design 3/16" x 1-1/4".

Instructions for use: Using a 5/32" drill bit, drill a hole a minimum of 1/2" deeper than the maximum embedment depth of the anchor (minimum anchor embedment should be 1"). (Apply a coating of WaterBase Construction Adhesive to step and to back of stair tread. Place the metal safety tread in position on step and move back and forth once or twice to obtain a Vulcanized bond.) Place anchor through tread into pilot hole and drive in with a Phillips bit.

These metal stair treads also can be fastened down with screws and lead expansion shields. Place tread on stair, mark holes for drilling, remove tread and drill holes using a 5/16" carbide-tipped drill bit. Before inserting shields into holes, dip each shield into Water-Base Construction Adhesive to prevent turning in hole while tightening the screw. (Apply a coating of the same adhesive to Step, and/or back of stair tread. Place the tread in position on the step and move back and forth once or twice to obtain a Vulcanized bond.) Then fasten down with flathead screws.

IMPORTANT: Do not use power tools to tighten fasteners at risk of stripping threads.

Unworn Stairs (Concrete, Terrazzo, Marble, Slate, etc.): Follow the same installation instructions described under Worn Stairs except leveling compound is not required.

Worn Stairs (Wood): Follow installation instructions described under Worn-Concrete Stairs for applying leveling compound. The hardened compound readily holds wood screws. Wood stairs require only starter holes for wood screws. Construction Adhesive is not necessary for wood steps but can be used if so desired.

Unworn Stairs (Wood): Follow the same installation instructions described under Worn Wood Stairs except leveling compound is not required.

Worn Stairs (Metal): Follow installation instructions listed under Worn-Concrete Stairs for applying plastic leveling compound. When fastening treads down, follow instructions described under Tapcon screws except you drill completely through the step using a 5/32" drill bit and fasten with machine screws and nuts or self-tapping screws.

Unworn Stairs (Metal): Follow the same installation instructions described under Worn-Metal Stairs except leveling compound is not required.

LEVELING COMPOUND

Leveling Compound is available in 50-lb drums and consists of specially formulated components to which you just add water, mix, and then the compound is ready for troweling. It will not shrink as it dries and can be feather-edged. One drum covers approximately 50 square feet of surface in 1/8" thickness. The Compound adheres to any type of stair tread (wood, concrete, steel, marble, etc.) No primer is required. Directions for mixing are shown on the drum.



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