

Arc Clean Tread™ Installation Instructions

KADEE
INDUSTRIES, INC.

Model: KDCP, KDVP

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INSTALLATION INSTRUCTIONS - ALUMINUM ENTRANCE GRIDS AND FRAMES

The installation of entrance grids is relatively simple. However, attention to detail can make the difference between a firm, well-installed grid, or one that appears loose, spongy, and could rattle.

UNCRATING UNITS

1. Check all contents of crate per packing slip:
 - Correct number of units and frames (if applicable).
 - Shop drawing.
 - Hardware package.
2. Check all merchandise for damage (*If damaged, report freight claim immediately- DO NOT REMOVE FROM CRATE until adjuster verifies*).
3. Depending on your order, the grids will be sitting in a welded frame section, or the frames will be loose in lengths as long as 8'.

INSTALLATION OF FRAMES *If no frames were provided skip to "Installation of Grids"*

The installation of the frame is a simple operation. However, care must be taken to avoid warping and/or bending of the steel angles or aluminum extrusions.

LEVEL BED APPLICATION - Option 1: Embedding frames in concrete or grout

1. Assemble the frames: By following the markings on each frame section, fasten the frame sections together with the hardware provided (see details on enclosed drawings). The hardware will consist of corner brackets and 10-24 bolts.
2. Install 4" grouting straps into the threaded channel located on the outside of the frame (the channel located on the underside of the frame may be used also) on 2' centers. Bend the bolts as need.
3. Ensure the frames are adequately blocked.
 - This will prevent the pressure of wet concrete or grouting cement from pushing in the sides of the frame.
4. Place frame into opening and shim as required, allowing for a co-planer installation between the grid and the *finished* floor surface.
5. Pour in grouting cement around edges and in center of frame to form the recess floor.
 - Be sure to keep the top of the perimeter frame free of the cement.
 - *NOTE: The recess floor must be flat and level, and the top of the frame seats must be flush with the recess floor in order to ensure proper installation.*
 - Before cement is set, confirm dimensions per the enclosed drawings. *NOTE: The mats are designed to fit into the frame with only a 1/16" gap between the mat and frame.*
6. After the cement has hardened, an insert (such as plywood) should be placed in the opening to protect the frame edges.

LEVEL BED APPLICATION - Option 2: Bolt frames to concrete floor

1. Pour slab to a depth so as to allow the top of the grid to be flush with the *finished* floor.
2. Bolt frames to concrete floor. Be sure bolts do not interfere with the grids laying flush on the framing (counter sinking may be required).
3. Pour in grouting cement around edges and in the center in a quantity that will be sufficient enough to be level with the inside horizontal leg of the frame. *NOTE: The recess floor must be flat and level, and the horizontal leg of the perimeter frame must be flush with the recess floor in order to ensure proper installation.*

DRAINAGE BED APPLICATION

1. The recess must be deep enough to allow for intermediate supports to fit under the grid. If the recess is sloped, shim the intermediate supports accordingly (see drawing for sectional details).
2. Assemble frames (for multiple-sectioned frames only). Using the bolts and nuts provided, fasten the framing sections together at the intermediate supports (see drawing).
3. Install 4" grouting straps into the threaded channel located on the outside of the frame (the channel located on the underside of the frame may be used also) on 2' centers. Bend the straps as need.
4. Ensure the frames are adequately blocked.
 - This will prevent the pressure of wet concrete or grouting cement from pushing in the sides of the frame.
5. Place frame into opening and shim as required, allowing for a co-planer installation between the grid and the *finished* floor surface.
6. Pour in grouting cement around edges and in center of frame to form the recess floor
 - Before cement is set, confirm dimensions per the enclosed drawings. *NOTE: The grids are designed to fit into the frame with only a 1/16" gap between the mat and frame.*
7. After the cement has hardened, shim the intermediate supports as necessary. Fasten the frames to the recess floor via the welded tabs at support intersections. An insert (such as plywood) should be placed in the opening to protect the frame edges.

INSTALLATION OF THE GRIDS

1. Assemble grids.
 - The grids will arrive in either in single lengths or modules approximately 1'-6" in the walking direction.
 - Following the markings on the lengths (or modules), assemble the grids by inter-locking each module.
2. Clean recess of all debris.
3. Lay mat into center of the recess. If the frame has been installed properly, there should be a gap around the entire grid of approximately 1/16".
4. For mats with vinyl inserts, the inserts will be slightly long and must be trimmed at the time of installation. A standard utility knife may be used to cut the inserts.

After installation, inspect the grid regularly to ensure that it fits properly, is obstruction free, and co-planer to the adjoining floor, if applicable. Refer to Kadee Maintenance Instructions included in this packet.