

**Bar Clean Tread™**  
**General Specifications**  
**Model: KDAL**

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**KADEE**  
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**SPECIFICATION SECTION 12484 - ALUMINUM BAR GRATING AND FRAMES**

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**PART 1.00 GENERAL**

**1.01 GENERAL REQUIREMENTS**

- A. Work of this section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.

**1.02 WORK RELATED**

- A. Work of this section includes labor, materials, equipment, and services necessary to complete the floor mats as shown on the drawings and specified herein.

**1.03 RELATED WORK**

- A. Concrete Recess - see Structural Drawings.

**1.04 REFERENCES**

- A. American Society for Testing and Materials
  1. ASTM B-221-88 Standard Specification for Aluminum-Alloy Extruded Bars, Wire, Rods, Shapes, Tubes.

**1.05 SUBMITTALS**

- A. Submit the following in accordance with Contract Documents, with conditions of contract, and Division 1 Specification Section:
  1. Product Data - Manufacturer's product specifications, installation, and maintenance instructions.
  2. Shop Drawings - Show layout and types of floor grates, including typical installations, details of patterns or designs, anchors and accessories, and field measurements of slab recess to receive floor grating.
  3. Samples - per architect's request.

**1.06 QUALITY ASSURANCE**

- A. Manufacturer: Except as otherwise indicated, provide entrance mats and accessories by a single manufacturer for entire project.

**1.07 PRODUCT HANDLING**

- A. Protection: Use all means necessary to protect materials of this section before, during, and after installation, and to protect the installed work and materials of all other trades.
- B. Replacements: In the event of damage, immediately make all repairs and replacements necessary.

**1.08 PROJECT CONDITIONS**

- A. Field Measurements: Check actual block-out openings in floors by accurate field measurements before fabrication of grates; show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay of work.

**1.09 WARRANTY**

- A. Floor grates shall be fabricated free of defects in materials and workmanship and the manufacturer shall offer a one (1) year warranty against defects in materials and workmanship.

**PART 2.00 - PRODUCTS**

**2.01 MAT ASSEMBLY**

- A. Furnish and install Bar Clean Tread Model KDAL Aluminum Bar Grating as manufactured by KADEE INDUSTRIES, Cleveland, OH (800) 321-3827; Fax (440) 439-6889.

- B. Tread Material: Extruded aluminum (6063-T6) self-cleaning design, with 1.175" x .25" aluminum tread bars, with spacers, and assembled with .25" threaded rods and nuts. Slot opening shall be .25". Tread bar surface shall be mill finish with round groove contours, for improved cleaning action and appearance, running the length of the bar. Anodized finishes available upon request.
- C. Frames shall be fabricated from mill finish extruded aluminum (6063-T6), either welded or bolted together for maximum strength and stability, depending on size. Anodized finishes available upon request.
  - 1. Drainage application: Framing shall consist of intermediate supports spaced no greater than 2' apart.
  - 2. Level Bed application: Unit must rest directly on the recessed floor.
- D. Hidden locking devices shall be used to prevent warping and rattling. The number of lockdowns to be used shall be in accordance with the manufacturer's recommendations.

## 2.02 FABRICATION

- A. Shop fabricate floor grates to greatest extent possible in sizes shown. Where not otherwise shown, provide single unit for each grate installation, but do not exceed manufacturer's maximum size recommendation for units intended for removal and cleaning. Where possible, contractor must verify field measurement sizes before shop fabrication.

## **PART 3.00 - EXECUTION**

### 3.01 EXAMINATION

- A. Examine all areas and conditions where grating is to be installed, and notify the architect of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions are corrected to permit proper installation of the work. For level bed applications, **it is essential that the grating units be placed on a flat substrate.**

### 3.02 INSTALLATION

- A. Install recessed floor grates and frames in accordance with manufacturer's instructions, at locations shown. Coordinate top of grate surfaces with doors that swing across grates to provide under door clearance. Coordinate for coplaner installation of grate surface to surrounding floor conditions.

### 3.03 PROTECTION

- A. Upon completion of frame installation and concrete work, provide temporary filler of plywood or fiberboard in grate recesses and cover frames with plywood protective flooring. Maintain protection until construction traffic has ended and project is near time of Substantial Completion.
- B. Installation of grating shall be deferred until near time of Substantial Completion for project.

END OF SECTION 12484