



matting / athletics / flooring

## MASTER SPECIFICATION SECTION 124813 – FURNISHINGS-BASE GRID ENTRANCE SYSTEMS

*Note: After downloading this spec, the Specifier must choose the correct Finish, Insert and Frame options and delete all other options to produce an accurate specification*

### PART 1 - GENERAL

---

#### 1.01 SUMMARY

- A. Section includes: [Entrance grid systems, including aluminum treads and frames]
- B. Related Sections: Section(s) containing requirements related to this section include:
  - 1. Grouting frames into recess; refer to Section 03 30 00, "Cast-in-Place Concrete" and Section 03 60 00, "Grouting."
  - 2. Special requirements of various flooring types; refer to Section 09400, "Terrazzo."

#### 1.02 REFERENCES

- A. American Society for Testing and Materials (ASTM)
- B. The Aluminum Association
- C. The Carpet and Rug Institute (CRI)
- D. The National Floor Safety Institute (NFSI)
- E. Other referenced documents
  - 1. LEED v3 and LEED v4

#### 1.03 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide [aluminum entrance grid system], which has been manufactured and installed to maintain performance criteria stated by manufacturer without defects, damage or failure.

#### 1.04 SUBMITTALS

- A. General: Submit listed submittals in accordance with the Conditions of the Contract and Division 1 Submittal Procedures Section.
- B. Product data: Submit product data, including Manufacturer's specification sheet and installation instructions for specified products. Include methods of installation and substrate preparation for each type of substrate.
- C. Sustainable Design Submittals: For projects requiring LEED submittal based on LEED v3
  - 1. Submit documentation substantiating that BaseGrid GB-700 Series contains a minimum of 45.8% (HD carpet inserts) and 38.3% (all other inserts) pre-consumer recycled content and therefore contributes to Materials & Resources Credit 4.

2. Submit documentation substantiating that the project is located within 500 miles of the manufacturing facility and therefore contributes to Materials & Resources Credit 5
  3. Submit documentation substantiating that the project has permanently installed BaseGrid GB-700 Series at least 10 feet in length and therefore contributes to Indoor Environmental Quality Credit 5.
- D. Sustainable Design Submittals: For projects requiring LEED submittal based on LEED v4
1. Submit documentation substantiating that BaseGrid GB-700 Series contains a minimum of 45.8% (HD carpet inserts) and 38.3% (all other inserts) pre-consumer recycled content and therefore contributes to Materials & Resources Credit.
  2. Submit documentation substantiating that the project is located within 100 miles of the manufacturing facility and therefore contributes to Materials & Resources Regional Material Credit.
  3. Submit documentation substantiating that the project has permanent entryway system at least 10 feet in length that is maintained on a weekly basis and therefore contributes to Indoor Environmental Quality Enhanced Indoor Air Quality Strategies Credit.
- E. Shop drawings: Submit shop drawings showing layout, profiles and product components, including anchorage, accessories, finish colors, patterns and textures.
- F. Samples: Submit samples for each type and color of exposed entrance mat, frames and accessories required. Provide samples of mat materials.
- G. Quality Assurance Submittals: (1) Certified test reports showing compliance with specified performance characteristics and physical properties, and (2) Manufacturer's Installation Instructions.
- H. Closeout Submittals: (1) Cleaning & Maintenance Data (Include methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance), and (2) Warranty.

## **1.05 QUALITY ASSURANCE**

- A. Installer: Installer should be highly experienced in performing work of this section, having previously done work similar to that required for this project.

## **1.06 SEQUENCING/SCHEDULING**

- A. Ordering: Comply with Manufacturer's ordering instructions and lead-time requirements to avoid construction delays.
- B. Delivery: Deliver materials in Manufacturer's original, unopened, undamaged packaging.
- C. Storage: Store materials at temperature and in humidity conditions recommended by manufacturer and protect from exposure to harmful weather conditions.
- D. Installation: Except as otherwise indicated herein, sequencing or scheduling for performance of work of this section in relation with other work is Contractor's option. Delay installation of grids until near time of substantial completion for the project.

## **1.07 PROJECT CONDITIONS**

- A. Temperature: Maintain temperature where products will be installed before, during and after installation as recommended by Manufacturer.

- B. Field Measurements: Where possible, verify actual measurements by field measuring before fabrication and include measurements in shop drawings. To avoid construction delays, coordinate field measurements and fabrication schedule based upon construction progress.
- C. Recessed Conditions: It is imperative that the concrete recess is entirely flat and smooth for successful installation. If a concrete contractor is responsible for forming the recess, the pour dimensions may require leveling grout to achieve the proper depth and a smooth finish. The final recess depth must match the specified product and must be field verified. Also, for proper frame installation, the side walls of the concrete recess must also be straight and smooth. Variances with the recess and side walls must be adjusted/corrected prior to product installation.

## PART 2 - PRODUCTS

---

### 2.01 ACCEPTABLE MANUFACTURER

- A. Provide Base Grid #GB-700 Series Rigid Grid by Base Specialties, Inc., 525 1<sup>st</sup> Street, Farmington, MN, 55024.

### 2.02 MATERIALS

- A. Tread rails and gridlock shall be extruded 6063-T6 alloy. Units shall be manufactured with an 1/8" space between rails for drainage, complete with soft-durometer vinyl cushions, supplied in mill finish unless otherwise indicated (anodized – clear, light bronze, medium bronze, dark bronze or black).
  - 1. LEED v3
    - a. IEQ Credit 5: BaseGrid GB-700 is designed for permanent installation.
    - b. MR Credit 4: With HD carpet inserts, 45.8% pre-consumer recycled content; with all other inserts, 38.3% pre-consumer recycled content.
    - c. MR Credit 5: Material must be manufactured within 500 miles of project location.
  - 2. LEED v4
    - a. MR Sources of Raw Materials Credit: 45.8% (HD carpet inserts) and 38.3% (all other inserts) pre-consumer recycle content.
    - b. MR Regional Material Credit: Material must be manufactured within 100 miles of project location.
    - c. IEQ Enhanced Indoor Air Quality Strategies Credit: BaseGrid GB-700 Series is a LEED acceptable permanent entryway system.
- B. Tread insert options for BaseGrid GB-700:
  - 1. **MonoScrape™ HD Carpet Inserts** shall meet the Carpet and Rug Institute's standard for good indoor air quality. Fibers shall include a minimum of 100, 12 mil monofilament fibers per square inch and colorfast, solution dyed nylon. Available in one of 12 standard colors as offered by Manufacturer. Each carpet fiber and monofilament shall be fusion-bonded to a rigid two-ply backing to prevent fraying and supplied in continuous splice-free lengths. Carpet weight shall be 33 oz./sq. yd.
  - 2. **Polybrush Inserts** shall be solution-dyed polypropylene fibers with 4,500 total denier, available in one of three standard colors as offered by the Manufacturer. The textured fibers have ultraviolet blockers and color as an integral part of the filament. Each Polybrush carpet fiber and monofilament shall be fusion-bonded to a rigid two-ply backing to prevent fraying and supplied in continuous splice-free lengths. Carpet weight shall be 33 oz./sq. yd.
  - 3. **Vinyl Inserts** shall include a flexible dual durometer vinyl insert in any one of three colors as offered by Manufacturer.
  - 4. **Vinyl Abrasive Inserts** shall include a flexible abrasive grit tape, bonded to a rigid vinyl tread insert. Tread insert shall be supplied in black, complete with one of five abrasive

colors as offered by Manufacture

5. **Serrated Aluminum Rails** shall be extruded 6063-T6 alloy. Serrated aluminum inserts shall be supplied in mill finish, unless otherwise indicated (anodized – clear, light bronze, medium bronze, dark bronze or black).

C. Framing for Aluminum BaseGrid Series

1. **L-7T - Aluminum Recessed “Tapered” Frame** for BaseGrid GB-700 Series shall have a vertical leg that is 1-7/8” tall and 3/8” thick with a tapered horizontal leg that is 2-7/8.” Recessed frame shall be extruded 6063-T5 alloy. Frame color shall be supplied in mill finish unless otherwise indicated (anodized – clear, light bronze, medium bronze, dark bronze or black).

2. **L-7B – Aluminum Recessed “Block” Frame** for BaseGrid GB-700 Series shall have both vertical and horizontal legs that are 2” tall and 3/8” thick. Recessed frame shall be extruded 6063-T5 alloy. Frame color shall be mill finish unless otherwise indicated (anodized – clear, light bronze, medium bronze, dark bronze or black).

## 2.03 PRODUCT SUBSTITUTIONS

A. Substitutions: No substitutions permitted.

## PART 3 – EXECUTION

---

### 3.01 SUBSTRATE PREPARATION

A. Examine substrates and conditions where floor grids will be installed. Do not proceed with installation until unsatisfactory conditions are corrected. Sub floor shall be clean and dry, and within acceptable tolerances.

### 3.02 INSTALLATION

- A. Sizes: Shop-fabricate units of aluminum grids to greatest extent possible in sizes as indicated. Where not indicated otherwise, provide single unit for each grid installation, but do not exceed manufacturer's maximum size recommendation for units intended for removal and cleaning. Where joints in grids are necessary, space symmetrically and away from normal traffic lanes. Miter corner joints in framing elements with hairline joints or provide prefabricated corner units without joints. Where possible, verify sizes by field measurement before shop fabrication.
- B. Accessories: [Where indicated for recessed or wall-to-wall installations, provide aluminum framework as recommended by manufacturer.]
- C. General: Strictly comply with manufacturer’s installation instructions and recommendations. Coordinate installation with adjacent work to ensure proper clearances and to prevent tripping hazards.

### 3.03 CLEANING AND PROTECTION

- A. General Cleaning: Refer to Manufacturer’s Cleaning and Maintenance Instructions.
- B. Owner’s Personnel: Instruct Owner’s personnel in proper maintenance procedures.
- C. Protection: Protect installed product and finish surfaces from damage during construction and until acceptance.

#### END OF SECTION

© 2012 Base Specialties, Inc. All Rights Reserved. A copyright license to reproduce this specification is hereby granted to non-manufacturing architects, specification writers, and designers. Rev 9/16