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GUIDE SPECIFICATION

**09 54 23**

**Endure Acoustics: Microperforated Metal Ceiling Tiles**

Endure Materials: Endure Floors

2209 Executive Drive

Garland, TX 75041

866.631.2221

sales@endurematerials.com

endurematerials.com

This Guide Specification utilizes the Construction Specifications Institute (CSI) Project Resource Manual – CSI Manual of Practice, including *MasterFormat*™, *SectionFormat*™ and *PageFormat*™. A Guide Specification is a manufacturer-specific proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets [ ]; delete unused optional text in the final copy of the specification. Specifier Notes commonly precede specification text; delete notes in final copy of specification. Project notes are highlighted and full width of page text; delete Project Notes in final copy of specification.

The products specified herein are supplied by Endure Materials, and are manufactured in accordance with proprietary specifications to ensure compliance with all defined performance and quality standards. [Endure Materials is responsible for the supply and coordination of these products as required by the project.]

Revise Guide Specification section number and title below to align with project specification structure and the scope of content. Refer to CSI MasterFormat 2004 edition for other section numbers and titles.

Section number below is based on CSI MasterFormat 2004 edition. This number replaces old number 09640 based on CSI MasterFormat 1997 edition. .01 suffix has been assigned to this specific product by Kahrs International Inc.

**SECTION 09 54 23**

**MICROPERFORATED METAL CEILING TILES**

**PART 1 GENERAL**

1. **SECTION INCLUDES**
   1. Microperforated metal tegular lay-in ceiling tiles.
   2. Accessories for ceiling installation.
2. **SUBMITTALS**
   1. Product Data: Manufacturer’s technical data sheet and installation instructions for each type of ceiling tile required.
   2. Shop Drawings: Submit shop drawings, including details, for all ceilings. Coordinate ceiling layout, installation, and suspension system components with construction elements that penetrate tile ceilings or are supported by them. Show overall layout with dimensions and details for penetrations and intersections with other materials or building components.
   3. Samples: Submit three (3) full size samples of each tile type required.
   4. Certificates: Submit manufacturer’s certificate that products meet or exceed specified requirements.
   5. Test Reports: Upon request, submit certified test reports from recognized test laboratories.
3. **MAINTENANCE MATERIAL**
4. Extra Materials:
   * 1. If extra materials are required, amount, type, color and pattern of material to be determined by the installer.
     2. Extra materials shall be from the same production run as the original materials.
     3. Extra materials shall remain in the manufacturer’s original packaging and given to the building owner upon substantial completion of the work. Store extra materials per instructions described in storage and handling requirements.
5. **QUALITY ASSURANCE**
   1. Qualifications:
      1. Manufacturers: Provide microperforated ceiling tiles from a single manufacturer.
      2. Installers: Utilize an installer who has demonstrated experience on projects of comparable size and complexity.
6. **DELIVERY, STORAGE, AND HANDLING**
   1. Delivery Requirements:
      1. Follow manufacturer’s delivery and receiving instructions.
   2. Storage and Handling Requirements:
      1. Handle products carefully to avoid damage or chipping edges.
      2. Store products in a clean, cool, dry place, and out of direct sunlight.
      3. Store products in a space where the ambient temperature and humidity conditions are being maintained at the levels indicated for the project when occupied for its intended use.
7. **SITE CONDITIONS**
   1. Ambient Conditions:
      1. Maintain ambient temperature and humidity conditions at levels indicated for the project when occupied for its intended use.
      2. Do not install products under environmental conditions outside manufacturer’s recommended limits.
   2. Existing Conditions: Do not install metal ceiling tiles until space is enclosed and weather proofed, wet work is completely dry, and work above ceilings is complete.
8. **WARRANTY**
   1. Provide manufacturer’s written product warranty per Section 01 77 00 – Closeout Procedures.

**PART 2 PRODUCTS**

1. **MANUFACTURERS**
   1. Product shall be fabricated in accordance with proprietary specifications developed and owned by Endure Materials , 2209 Executive Drive, Garland, TX 75041. Website: EndureMaterials.com   
      Phone: (866) 631-2221.
   2. Manufacturing is performed by a qualified third-party production partner under contract with Endure Materials. Endure Materials retains sole responsibility for product design, specification compliance and quality control.
   3. Substitutions: Not permitted without prior written approval from Architect and Endure Materials.
2. **DESCRIPTION**
   1. Product Description: Microperforated metal tegular lay-in ceiling tiles as provided by Endure Materials.
   2. Product Options: For each item listed below, please select one (1) option from the choices.
      1. Finish: (Black) / (White) / Available with custom dye-sublimation print
      2. Perforation Size: (0.5mm)
      3. Perforation Pattern: Offset
      4. Tile Size: (2’ x 2’ – Nominal) / (Custom)
      5. Tile Thickness: (Black – 5/8”) / (White – 3/8”) / (Custom)
      6. Grid Size: (15/16”)

**PART 3 EXECUTION**

1. **EXAMINATION**
   1. Verification of Conditions:
      1. Inspect the installation area and conditions under which work is to be performed for compliance with all manufacturers’ environmental requirements.
      2. All wet work in the installation area must be complete, cured, and dry prior to installation.
      3. Work above ceilings shall be complete, inspected, and accepted before ceiling work begins.
2. **INSTALLATION**
3. Comply with manufacturer’s instructions and recommendations for installation of ceiling tiles and industry standards.
4. Coordinate the exact size, location, and sequencing penetrations of ceiling tiles by all building components.
5. Lay out ceiling pattern per approved shop drawings if required. Where not otherwise indicated, lay out tiles so margins on opposite sides of rooms are equal or greater than half (1/2) the tile width.
6. Where ceilings of different heights abut, install acoustic material matching ceiling at vertical surface of ceiling break to match ceiling.
7. **ADJUSTING**
8. Adjust tiles after installation so that surfaces are aligned, flush, and level with gaps between units consistent in width and straight.
9. **CLEANING**
10. Clean surfaces of ceiling tiles per manufacturer’s instructions.
11. Remove and replace damaged or discolored material and material that cannot be properly cleaned.
12. **PROTECTION**
13. Protect installed work from damage due to subsequent construction activity, including temperature and humidity limitations and dust control, so that the work will be without damage and deterioration at the time of acceptance by the owner.

END OF SECTION