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THIS SECTION IS BASED ON ROCKFON®'S "PLENUM BARRIER BOARD INSULATION™".

## **PART 1 - GENERAL**

### **1.1 RELATED DOCUMENTS**

- .1 Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

### **1.2 SUMMARY**

- .1 Section Includes: Provide plenum barrier board insulation including but not limited to:
  1. Plenum barrier board insulation.
- .2 Related Requirements:
  1. Section 07 80 00, Fire and Smoke Protection.
  2. Section 09 21 16, Gypsum Board Ceilings.
  3. Section 09 51 00, Acoustical Ceilings.
  4. Section 09 53 00, Acoustical Ceiling Suspension Assemblies.
  5. Section 09 54 00, Specialty Ceilings.
  6. Section 09 58 00, Integrated Ceiling Assemblies.
  7. Section 13 48 00, Sound, Vibration, and Seismic Control.
  8. Section 21 10 00, Water-Based Fire-Suppression Systems
  9. Section 23 20 00, HVAC Piping and Pumps.
  10. Section 23 30 00, HVAC Air Distribution.
  11. Section 26 50 00, Lighting.

### **1.3 REFERENCES**

- .1 Reference Standards:
  1. ASTM C612 - Standard Specification for Mineral Fiber Block and Board Thermal Insulation
  2. ASTM E1111/E1111M - Standard Test Method for Measuring the Interzone Attenuation of Open Office Components
  3. ASTM E1414/E1414M - Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum
  4. CAN/ULC-S102 - Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies

### **1.4 ADMINISTRATIVE REQUIREMENTS**

- .1 Pre-Installation Meetings: Conduct meeting at Project site. Agenda includes Project conditions, coordination with work of other trades and layout of items which penetrate plenum barrier board insulation.

### **1.5 SUBMITTALS**

- .1 Product Data: Submit manufacturer's Product data.

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**1.6 MAINTENANCE MATERIAL SUBMITTALS**

- .1 Supply additional material (full-size plenum barrier boards) equal to 2% of the total plenum barrier area. Additional material should match Products installed and be packaged with protective covering for storage and identified with labels describing contents.

**1.7 DELIVERY, STORAGE, AND HANDLING**

- .1 Protect plenum barrier board insulation from excessive moisture in shipment, storage, and handling. Protect edges from being crushed, dented or torn in shipment, storage, and handling. Deliver in protected pallets and store in a dry place with adequate air circulation.

**PART 2 - PRODUCTS****2.1 MANUFACTURERS**

- .1 ROCKFON, 4849 South Austin Avenue, Chicago, IL 60638. 1-800-323-7164; [www.rockfon.com](http://www.rockfon.com).

**2.2 MATERIALS**

- .1 Plenum Barrier Board Insulation: Stone wool insulation, "ROCKFON® Plenum Barrier Board™" by ROCKFON® with following characteristics:
  - 1. Size: 610 mm x 1220 mm (24" x 48").
  - 2. Thickness: 38 mm (1-1/2").
  - 3. Facing: Aluminum foil with fibre reinforcement.
  - 4. Warning Label: Printed in black ink on the facing shall be warning labels 100mm (4") high by 100 mm (4") wide spaced 300 mm (12") inches in both directions with the words "Noise Barrier. Do not remove barrier or damage foil facing." Warning labels shall be oriented in all four directions in ninety-degree increments so legible from any edge of the board.
  - 5. Density: 128.15 kg/m<sup>3</sup> (8.0 lbs/cu ft) (actual density).
  - 6. Fire Class: Class A.
  - 7. Fire Performance:
    - 1. CAN/ULC-S102 Flame Spread / Smoke Developed: 25/50.

**PART 3 - EXECUTION****3.1 EXAMINATION**

- .1 Examine walls, ceiling grid, ducts, pipes and conduits including suspension and bracing assemblies, with installers present, for conditions affecting performance of plenum barrier board insulation. Proceed with installation only after unsatisfactory conditions have been corrected.

**3.2 INSTALLATION**

- .1 Install plenum barrier board insulation to form contiguous sound barrier above demising walls or under raised floors according to manufacturer's instructions.

**3.3 REPAIR**

- .1 Remove damaged or compromised components or components that result in openings too large to be filled with non-hardening acoustic sealant; replace with undamaged components.

**3.4 SITE QUALITY CONTROL**

- .1 Site Tests and Inspections: Inspect around and between installed plenum barrier boards and around penetrating elements and fill openings with non-hardening acoustic sealant.

END OF SECTION