Speech Guard G2 Plenum Return Silencer

Spirit Acoustics Inc.

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<http://speechguard.net>

**SECTION 23 32 48. 11**

**Acoustic Air Plenum Accessory**

**Plenum Return Silencer G2**

1. **GENERAL**
   1. SECTION INCLUDES
      1. The Plenum Return Silencer stops airborne sound transmission through ceiling grid air return grills to increase speech privacy.
      2. Composition: The Plenum Silencer has a mat-faced finish, produced with a core of strong glass fibers and bonded with a thermosetting resin. The air stream side of the air flow duct features a black fiber glass mat, with a fire resistant foil scrim on the exterior, extending the full with of the chute.
   2. REFERENCES
      1. ASTM International
         1. Flammability rating of class A
         2. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.
         3. NFPA 90A and 90B
         4. Canada: CAN/ULC S102-M88
   3. SUBMITTALS
      1. General: Submit listed submittals in accordance with conditions of the contract.
      2. Product Data: Manufacturer's data sheets on each product to be used, including:
         1. Preparation instructions and recommendations.
         2. Storage and handling requirements and recommendations.
   4. QUALITY ASSURANCE
      1. Product Qualifications: Products shall meet the following criteria:
         1. Surface Burning Characteristics (ASTM E84)
            1. Flame spread: 25, maximum.
            2. Smoke Developed: 50
      2. General Properties
         1. Max. Operating Temperature (ASTM C411): 250º (121º C)
         2. Max. Air Velocity (ASTM C1071: 5,000 fpm (25.4 m/sec)
         3. Max. Internal Pressure (UL 181) : 2º w.c. (498 Pa)
         4. Fungi resistance (ASTM C1338): Does not breed or promote
         5. Fungi resistance (ASTM G21): No growth
         6. Bacteria Resistance (ASTM G22): No growth
         7. Water vapor transmission (ASTM E96): < 0.02 Perms
         8. Water vapor solutions (ASTM C1104): < %5 by weight
   5. DELIVERY, STORAGE, AND HANDLING
      1. Store products in manufacturer’s unopened packaging until ready for installation.
   6. PROJECT CONDITIONS
      1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

**PART 2 PRODUCTS**

* 1. Plenum Return Silencer G2
     1. Manufacturer: Spirit Acoustics Inc.

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* + 1. Substitutions: Not permitted.
  1. MANUFACTURED UNITS
     1. Plenum Return Silencer G2
        1. Sizes available for 2x2 or 2x4 ceiling grid systems
           1. Hood Size: 31”w x 9”h x 1”t (787mm x 229mm x 25mm)
           2. Chute Size: 18”h x ½”t, reduced height – 14” (457mm x 13mm, reduced height – 356mm)
           3. Mat Size: 24”w x 24”w x ½”t (610mm x 610mm x 13mm)
        2. Weight
           1. Standard G2: 15lb
           2. G2 with 1lb plenum: 24lb

**PART 3 EXECUTION**

* 1. EXAMINATION
     1. Site Verification of Conditions: Verify substrate conditions are acceptable for product installation in accordance with manufacturer’s instructions.
  2. INSTALLATION
     1. Install in accordance with manufacturer's instructions.

END OF SECTION