

Approved: 2013-06-30

**Part 1            General**

**1.1                ACTION AND INFORMATIONAL SUBMITTALS**

- .1        Submit in accordance with division 1.
- .2        Product Data:
  - .1        Submit manufacturer s instructions, printed product literature and data sheets for exhaust grilles and include product characteristics, performance criteria, physical size, finish and limitations.
  - .2        Indicate following:
    - .1        Capacity.
    - .2        Throw and terminal velocity.
    - .3        Noise criteria.
    - .4        Pressure drops.
    - .5        Neck velocity.

**1.2                MAINTENANCE MATERIAL SUBMITTALS**

- .1        Extra Materials:
  - .1        Provide maintenance materials in accordance with division 1.
  - .2        Include:
    - .1        Keys for volume control adjustment.
    - .2        Keys for air flow pattern adjustment.

**1.3                DELIVERY, STORAGE AND HANDLING**

- .1        Deliver, store and handle materials in accordance with division 1.
- .2        Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer s name and address.
- .3        Storage and Handling Requirements:
  - .1        Store materials indoors and in accordance with manufacturer s recommendations in clean, dry, well-ventilated area.
  - .2        Store and protect exhaust grilles from nicks, scratches, and blemishes.
  - .3        Replace defective or damaged materials with new.

**Part 2            Products**

**2.1                SYSTEM DESCRIPTION**

- .1        Performance Requirements:

- .1 Catalogued or published ratings for manufactured items: obtained from tests carried out by manufacturer or those ordered by manufacturer from independent testing agency signifying adherence to codes and standards.

## **2.2 GENERAL**

- .1 To meet capacity, pressure drop, terminal velocity, throw, noise level, neck velocity as indicated.
- .2 Frames:
  - .1 Full perimeter gaskets.
  - .2 Plaster frames where set into plaster or gypsum board.
  - .3 Concealed fasteners.
- .3 Colour: as directed by Departmental Representative.

## **2.3 EXHAUST GRILLES**

- .1 General: with opposed blade dampers.

## **Part 3 Execution**

### **3.1 EXAMINATION**

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for diffuser, register and grille installation in accordance with manufacturer s written instructions.
  - .1 Visually inspect substrate in presence of Departmental Representative.
  - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
  - .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

### **3.2 INSTALLATION**

- .1 Install in accordance with manufacturers instructions.

### **3.3 CLEANING**

- .1 Progress Cleaning: clean in accordance with division 1.
  - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with division 1.

**END OF SECTION**