

## SECTION 23 33 00

### AIR DUCT ACCESSORIES

This document is intended to note the Owners Design Requirements (ODR) for the titled specification section. Design professional to review and integrate ODR into the project's technical specifications. This ODR document should not be viewed as a standalone technical specification.

#### PART 1 - GENERAL REQUIREMENTS

- ◆ Spare parts
  - Furnish extra fusible links to Owner, one link for every 10 installed of each temperature range; obtain receipt.

#### PART 2 - PRODUCTS AND MATERIALS

- ◆ Fire/Fire-Smoke/Smoke Dampers Manufacturers (or OWNERS approved equal)
  - Greenheck
  - Ruskin
- ◆ Duct Access Doors
  - Rigid and close fitting of galvanized steel with sealing gaskets and quick fastening locking devices. For insulated ductwork, install minimum 1 inch thick insulation with sheet metal cover.
    - Up to 18 inch square access doors shall have 2 hinges and 2 sash locks.
    - 18 inch square to 24x48 access doors shall have 3 hinges and 2 compression locks. Larger access doors shall have an additional hinge.
    - Access panels with sheet metal screw fasteners are not acceptable.
- ◆ Cable operated damper systems
  - Damper shall be adjustable through the diffuser face or frame with standard 1/4" nutdriver or flat screwdriver.
  - Cable assembly shall attach to damper as one piece with no linkage adjustment.
  - Provide cable length as required to span the distance from the damper to the remote operator location.
  - Support cable assembly to avoid bends and kinks in cable.
- ◆ Flexible duct.
  - Provide acoustical, fiberglass insulated duct similar to Thermaflex M-KE
- ◆ Flexible elbow assembly
  - Flexible elbow assembly shall be constructed of durable composite material and UL listed for use in return air plenums with a turning radius of not less than 3 inches.
  - Flexible elbow assembly shall use a product similar to the FlexFlow Elbow as manufactured by Thermaflex, Inc.
- ◆ Flexible connectors
  - Provide flexible duct connections wherever ductwork connects to vibration isolated equipment. Construct flexible connections of neoprene-coated flameproof fabric crimped into duct flanges for attachment to duct and equipment. Make airtight joint. Provide adequate joint flexibility to allow for thermal, axial, transverse, and torsional movement, and also capable of absorbing vibration of connected equipment.

#### PART 3 - EXECUTION

- ◆ Installation
  - Only utilize flexible ductwork on supply ductwork systems.
  - Flexible duct runs shall not exceed 5 feet in total length. Utilize the minimum length of duct to make the connections.

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- Flexible ductwork shall be installed straight as possible avoiding tight turns with a maximum of one 90 degree bend in any length. Install flexible duct fully extended minimizing compression.
- Provide duct access doors for inspection and cleaning before and after filters, coils, fans, automatic dampers, at fire dampers, combination fire and smoke dampers, and elsewhere as indicated. Provide minimum 12 x 12 inch size for hand access, 18 x 18 inch size for shoulder access, and as indicated. Submit locations via Procore to fabrication.

**END OF SECTION**