

SECTION 15203: HEATING, VENTILATION & AIR CONDITIONING SYSTEMS INSULATION

PART I – GENERAL

WORK SPECIFIED HEREIN

- Supply and return duct insulation.

RELATED WORK

- Specified under other Section.
- Acoustical duct liner (in Section 15202 - Basic Materials and Methods - Air Distribution Systems).

SUBMITTALS

- Unless otherwise noted, the contractor shall prepare all shop drawings, product literature, etc. only as required to properly coordinate and construct the project.
- Review of submittals by the Professional of Record is limited to specific shop drawings as called for in the Project Manual.
- Shop drawings for review by the Professional of Record are not required for this section.

PART II – PRODUCTS

MATERIALS

- Insulation shall be Owens-Corning, Armstrong, Schuller or CertainTeed.
- All insulation, vapor barriers, jackets, and the adhesives used for applying them shall have a U.L. flame spread classification of not more than 25 and a smoke developed rating not more than 50.
- Duct Sealant: McGill Uni-Mastic 181 Duct Sealer or equal. Polymeric Rubber Duct Sealant shall be used for sealing of joints. Sealant shall be high in solid content and have high bonding strength. Any/all tape adhesives are NOT acceptable. All ductwork shall be sealed in accordance with SMACNA Seal Class "B".
- Duct Wrap: Owens-Corning SoftR Fiberglass Duct Wrap Type 75 – 0.75 pcf, 1-1/2" thick with vapor barrier or other approved duct wrap. Delete where acoustical liner is used.
- Duct Liner: Owens-Corning QuietR AcoustiTex Duct Liner Type 200, 1" thick or other approved duct liner. Duct liner shall have anti-microbial agents in the coating and shall have a durable cleanable surface.
- Line interior of exposed supply and return ductwork. Duct Wrap is an acceptable alternate for concealed ductwork.
- Exhaust ductwork shall be un-insulated.

PART III – EXECUTION

WORKMANSHIP

- Contractor shall be responsible for the replacement of all insulation installed as a part of this work, that is damaged by water, etc., during the construction period.
- All hanger rods must be perpendicular before duct covering is applied.
- Adhere insulation to duct with fire retardant adhesive in sufficient quantities to prevent sagging. Insulation shall be butted with facing overlapping all joints at least 3" and sealed with fire retardant vapor barrier adhesive. Seal all breaks and punctures with vapor tape and same type of fire retardant adhesive.
- Blanket insulation shall be wrapped with 3" overlap at all joints and tied with #18 G.I. wire at 12" on center (3" o.c. at fittings, elbows, etc.).

END OF SECTION

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