

1.0 DUCT CONSTRUCTION

NOTES FOR SPECIFIER

Ductwork and supports shall conform to the *HVAC Duct Construction Standards, Metal, and Flexible, Second Edition, 1995*. Where fittings or configurations not shown in the HVAC-DCS are shown on the contract drawings, they shall be constructed as though they were therein.

1.1 DUCT DIMENSIONS

Duct dimensions shown on the contract drawings are for airflow area. When ducts are acoustically lined, their dimensions shall be increased as necessary.

1.2 DUCT PRESSURE CLASS

Duct pressure classes are identified on the contract drawings.

Schedule the pressure classes here by fan system number, or portion thereof, if they are not shown on the drawings

1.3 DUCT SEAL CLASS

Ducts shall be sealed as specified in the HVAC-DCS

Review DCS pages 1-7 to 1-9.

1.4 DUCT LEAKAGE CLASS

Consult the HVAC-Air Duct Leakage Test Manual and select appropriate allowable leakage. If field leak tests are required, appropriate test pressures and clear scope of testing must be specified.

1.5 DUCT LINER

Metal nosing shall be used on leading edges of each piece of lined duct when the velocity exceeds 4000 fpm (20.3 m/s) otherwise, it shall be used on the leading edge of any lined duct section that is preceded by unlined duct.

See duct liner text and references in the HVAC-DCS and specify the material, thickness, density, and performance characteristics desired.

1.6 FLEXIBLE DUCT AND CONNECTOR

Where the specifications for connecting and supporting these in the HVAC-DCS are more stringent or restrictive, they shall supersede.

Consult the applicable codes, The U.L. Fire Resistance Directory, references in the HVAC-DCS, the Air Diffusion Council's Flexible Air Duct Performance and Installation Standards and identify the products and performance characteristics desired

1.7 VIBRATION ISOLATION CONNECTORS

Flexible isolation connectors shall not exceed 10 inches in length in direction of airflow and shall be made of flame retardant fabric having a flame spread rating not over 25 and a smoke developed rating not over 50.

NOTICE: See Addendum No. 1 after Appendix A



1.8 PROPRIETARY PRODUCTS

Description of products from a proprietary or single-source manufacturer shall be submitted for approval along with substantiation of fitness for the service conditions that are proposed but not already identified in the project specifications.

Consult the SMACNA Fire, Smoke, and Radiation Damper Guide and local codes for obligations to show the location of each barrier penetration protection device on contract drawing. Review the commentary in Section 2.3 of these standards for obligations to show all air volume control devices on the contract drawings when they are not specified to be integral with hvac units or air terminal units. Also specify the size and location of all access doors and access panels to be used in ductwork.