



QUIETR® ROTARY DUCT LINER, DUCT LINER BOARD, AND HD-ROLL INSTALLATION INSTRUCTIONS & GUIDELINES

Installation

- Duct liner shall be installed in accordance with the latest edition of NAIMA Fibrous Glass Duct Liner Standard (hereinafter referred to as NAIMA FGDLS) or SMACNA HVAC Duct Construction Standard, Metal & Flexible (hereinafter referred to as SMACNA HVAC DCS). Liner shall be installed with the labeled or printed surface exposed to the air stream.
- All portions of duct designated to receive duct liner should be completely covered with QuietR® Duct Liner Board or HD-Roll, adhered to the sheet metal with 90% coverage of adhesive complying with ASTM C916. Transverse joints shall be neatly butted. A minimal gap is permitted at the transverse joints between duct sections. All transverse joints shall be edge-coated. Metal nosing on leading edges must be used where duct liner is preceded by unlined metal, and on all upstream edges when velocity exceeds 4,000 fpm (20.3 m/s). Duct liner shall be installed with the labeled or printed black mat veil surface exposed to the airstream.
- Duct liner shall be secured with mechanical fasteners, either impact-driven or weld-secured, which shall not compress the duct liner more than $\frac{1}{8}$ " (3 mm) based on duct liner nominal thickness. For fastener spacing, see Figure 1.
- QuietR® Duct Liner Board or HD-Roll should be cut to assure tight, overlapped corner joints. The top pieces shall be supported at the edges by the side pieces.
- Minor damage and small tears may be repaired by coating with adhesive.
- After installation, and prior to occupancy, blow out duct system to remove any cutting scraps or foreign material remaining in the duct.

Multiple-Layer Installation Instructions

Installation of two layers of duct liner is not recommended. If the specification forces the use of multiple layers, the following steps shall be taken:

1. Adhere bottom layer of duct liner to duct in normal manner.
2. Adhere top layer to bottom layer of liner using a minimum of 90% adhesive coverage.
3. Treat leading edges with metal nosings to help prevent separation of the two layers.
4. Use mechanical fasteners of the proper length for double layers.

Other Considerations

- To avoid contact with liquid water, duct liner should be protected with a sheet metal sleeve and drip pan adjacent to equipment such as evaporative coolers, humidifiers, cooling coils, and outside intakes. When duct systems run through unconditioned space and are used for cooling only, register openings must be tightly sealed to help prevent water vapor accumulation in the system during the heating season.
- Lined ductwork supplying clean rooms should have terminal filtration of the efficiency required for the particular class of clean room.
 - To avoid damage to the duct liner due to physical abuse caused by maintenance personnel working in accessible plenums, some means of duct liner protection must be employed.
 - Conduct all job site operations in compliance with applicable provisions of the Occupational Safety and Health Act, NAIMA's Product Stewardship Program, and all state and/or local safety and health codes and regulations that may apply to the work. Consult the manufacturer's Safety Data Sheet (SDS) when appropriate.

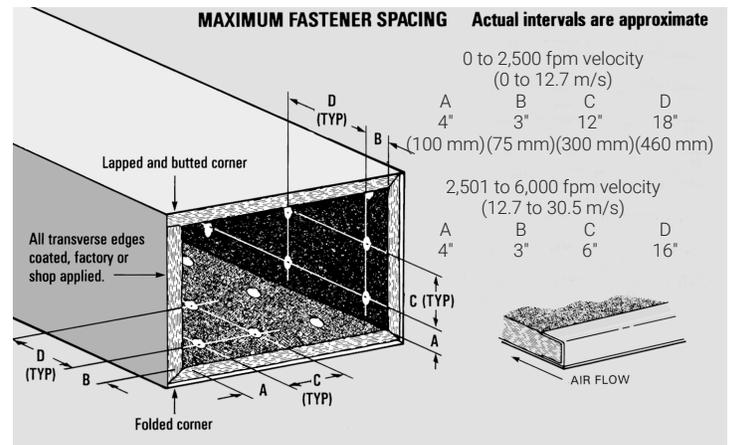


Figure 1: Metal nosing (channel or zee) must be used where liner is preceded by unlined metal. Otherwise, when air velocity exceeds 4,000 fpm (30.5 m/s), use metal nosing on all upstream edges of duct liner.

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