

INSTALLATION INSTRUCTIONS

DUCT LAGGING MODELS SB4X10 / SB4X20 / SB4X30

FUNCTION

Duct Lagging reduces transmission of noise into or out of a duct through its walls. Noise radiating into a space from duct walls is often called “break-out” noise.

RenewAire’s duct lagging material is a composite. The outer layer is a limp, mass-loaded vinyl layer, with an aluminized outer face that provide a Class A flammability rating. The outer layer provides most of the sound absorption. The inner layer of quilted acoustic fiber glass absorbs some break-out noise but its primary function is to decouple the outer mass layer from the duct.

SUMMARY INSTALLATION METHOD

The duct lagging is wrapped around the duct, sealed with tape or adhesive, and secured with banding. Tape with vinyl-compatible adhesive is available from RenewAire. See next page for installation details.

SIZES AND WEIGHTS

SB4x10	48” wide x 10’ long 6”overlap along long edge 55 pounds
SB4x20	48” wide x 20’ long 6”overlap along long edge 112 pounds
SB4x30	48” wide x 30’ long 6”overlap along long edge 158 pounds

MATERIAL SPECIFICATIONS:

Thickness:	1” (nominal)
Outer Mass layer:	Foil-scrim faced limp vinyl 0.1” thickness, 1psf Mass-loaded with barium sulfate (no lead)
Inner decoupler layer:	1” thick quilted fiberglass
Total weight:	1.4 pounds per square foot
“R” factor:	3.4
Temperature range:	-40°F to +220°F
Flame Spread index:	10 per ASTM E-84
Smoke Density index:	40 per ASTM E-84

WARNING

PRODUCT CONTAINS FIBERGLASS WOOL!

Handling the fiberglass during installation will expose you to airborne particles of glass wool fibers and ceramic particles known to the State of California to cause cancer through inhalation. Glass wool fibers may also cause respiratory, skin or eye irritation.

PRECAUTIONS

- As with all fiber glass wool products, when handling or installing this material:
- Wear long sleeves, gloves and caps.
- Wear eye protection (goggles, safety glasses or face mask).
- Use a NIOSH-certified particulate respirator with an efficiency rating of N95 or higher, such as a 3M model #8210, #8511, or #8233.
- After handling or installing, bathe with soap and warm water.
- Wash work clothes separately and rinse washer after use.

INSTALLATION INSTRUCTIONS (continued)

MATERIALS REQUIRED FOR TYPICAL INSTALLATIONS:

- **Duct Lagging (required):**
RenewAire PNs SB4x10, SB4x20 or SB4x30.
- **Nylon Ties (straps): RenewAire PN SBBAND, packs of (10).** Use to hold the duct lagging in place during installation, and as back-up to the tape or adhesive(s) used to seal the overlapping joints.
- **Vinyl-compatible Tape (optional): RenewAire PN SBTAPE.** Used for permanent sealing of seams in duct lagging's outer mass layer.
- **Vinyl Adhesive (optional, by others)** – may be used to adhere vinyl noise barrier overlap joints. Use an MEK-based solvent adhesive (example: adhesive used with vinyl flooring).
Follow the manufacturer's recommendations concerning ventilation and application.
- **Insulation Stick Pins (optional, by others)** – may be used to secure the duct lagging.
- **Spray Contact Adhesive (optional, by others)** – may be used to adhere the inner fiberglass layer of duct lagging to the duct surface (example: "3M 77+").

CAUTION

DO NOT USE ORDINARY DUCT TAPE AS THE ONLY ATTACHMENT METHOD.

The plasticizers in the vinyl barrier layer will eventually weaken conventional duct tape's adhesive. Add straps to the installation if using conventional duct tape.

INSTALLATION DETAILS:

- Clean the duct surface thoroughly if you plan to use spray adhesive to attach the inner (fiberglass) layer of the duct lagging to the duct.
- Cut the duct lagging to size and wrap it around the outside of the duct. Don't overlap the fiberglass insulation – make butt joints instead. At all seams overlap the outer barrier layer by a minimum of 2" and adhere using vinyl adhesive. Alternately, butt the barrier together at joints, covering the seam using either:
 - SBTAPE 2" wide tape vinyl-compatible adhesive, available from RenewAire; or
 - a 2" wide cut piece of the barrier material, glued on with vinyl adhesive.
- You can use duct tape to help align the pieces or to temporarily hold the noise barrier in place while adhesive cures, or while applying the SBTAPE tape. SBTAPE is preferred to conventional duct tape because it has a permanent bond (see CAUTION below).
- SSBAND nylon ties can be wrapped around the outside of the barrier to take the strain off the adhesive. If used, this banding should be placed on either side of all radial seams in addition to the midpoint on longer sections. Tighten the ties just enough to support the duct lagging – don't compress fiberglass decoupler layer.
- Alternately, use insulation "stick pins" or "weld pins". Again, don't compress the fiberglass decoupler layer

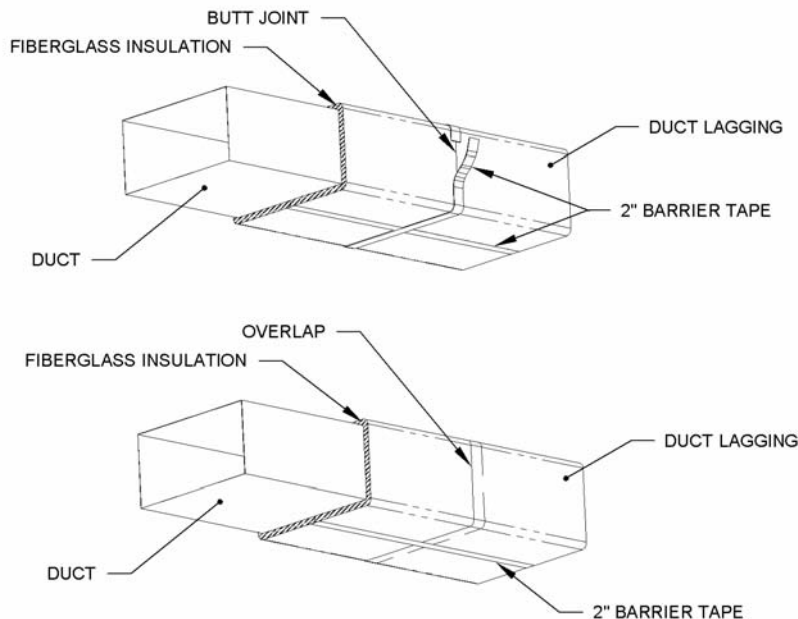


ILLUSTRATION OF BUTT JOINT AND OVERLAP METHODS