Installation Guide for Mass Loaded Vinyl Acoustical Barrier

HVAC | Pipe Lagging | Walls
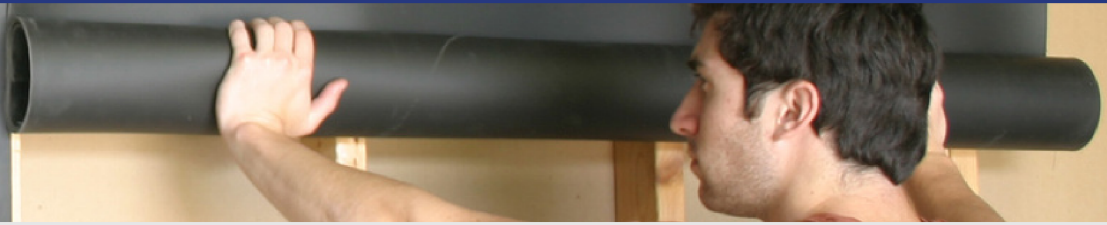
Before You Start:

• Installing MLV on walls or ceilings requires two people.

• Fiberglass or Mineral Wool insulation should be installed in the stud cavity as this will further assist in reducing noise.

• When possible, seams should be tightly adjoined and centered vertically on studs.

• When seams occur in stud cavities overlap the MLV by 2", caulk with acoustical caulk, and tape with seam tape.

• Proper installation around electrical boxes and any other barrier penetrations is critical.

• Any air leak infiltrations will compromise total barrier performance.

Tools Needed for Installation:

• Hammer and/or drill for fasteners
• Tape measure
• Utility knife
• Straight edge or T-square
• Ladder or scaffolding
• Acoustical caulk

Materials for Installation:

• MLV nails, self tap screws and washers for steel studs.
• Seam Tape (Vinyl Tape)
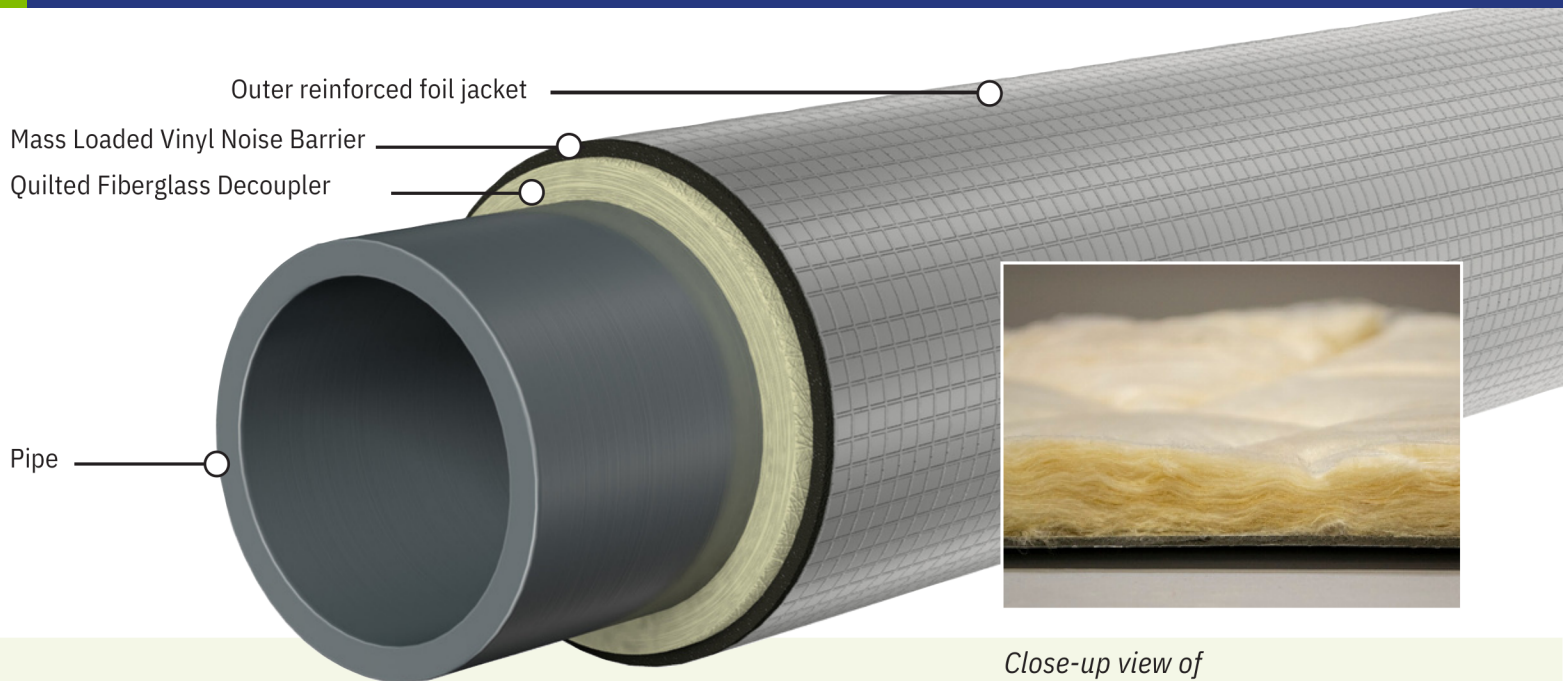• Acoustical Caulk

Supporting the Fasteners:

MLV can be torn easily when hanging due to its own weight. This is why the type of fastener used is important. One or two fasteners is not enough to support the material. Start with several fasteners at the beginning of the roll. Do not rely on drywall alone to support the weight.

INSTALLATION INSTRUCTIONS

1. Measure the distance between the ceiling and the floor. Subtract 1/4" to 1/2" from the total to allow for a small perimeter gap. This gap will be filled in later.

2. Roll out the MLV. Using previous measurements transfer this to the MLV and with a razor knife, cut to the required length. For a straight cut use a straight edge or T-Square.

3. With the help of an assistant, position the first strip of MLV in the top corner against the wall frame. Verify the MLV is straight so it will evenly drape the wall from top to bottom. Maintain a small gap along the perimeter as discussed in step 1.

4. Begin fastening with nails, screws, or staples along the top working your way across the MLV and down the wall. Use of a small washer is recommended if using screws. Nails with a wide flat head is highly recommended.

5. Having a seam on a stud makes it easy to avoid using vinyl or foil tape. To install on a stud, butt two panels of material. Do not allow any overlap. Fasten each separately to the framing.

6. Fasten the nail or screw with a washer 2" on center along the top, bottom, and length of each stud. For steel stud installation, use 3/4" wafer head tek self-tapping screws with washers.

7. Repeat steps 2-5 until your entire wall or ceiling is covered in MLV. When MLV seams terminate on a stud, butt the pieces together, caulk the seam, and apply tape. When MLV seams terminate between studs, overlap the MLV about 2", and tape the seam.

8. Electrical outlets. Cut around openings and avoid covering electrical outlets or other openings. It is best to expose the outlets as you install each strip of MLV so they are not forgotten. Acoustical caulk should be used to seal all seams and edges.

9. Once your installation is finished, caulk the perimeter with acoustical caulk. Proper sealing of edges will help you achieve significant gains.

10. Your installation is now complete, hang your drywall over the MLV and apply your desired finish.

Outer reinforced foil jacket

Mass Loaded Vinyl Noise Barrier

Quilted Fiberglass Decoupler

Pipe

*Close-up view of
Fiberglass Decoupler
attached to MLV.*

INSTALLATION INSTRUCTIONS FOR SILENTWRAP™ WITH LAG

The surface of any wrapped piping should be cleaned and free of any material that may impact the acoustics of this product. The following additional items/materials are required for product installation: 2" Foil tape, metal or plastic banding, filament or duct tape, utility knife, measuring tape and straight edge.
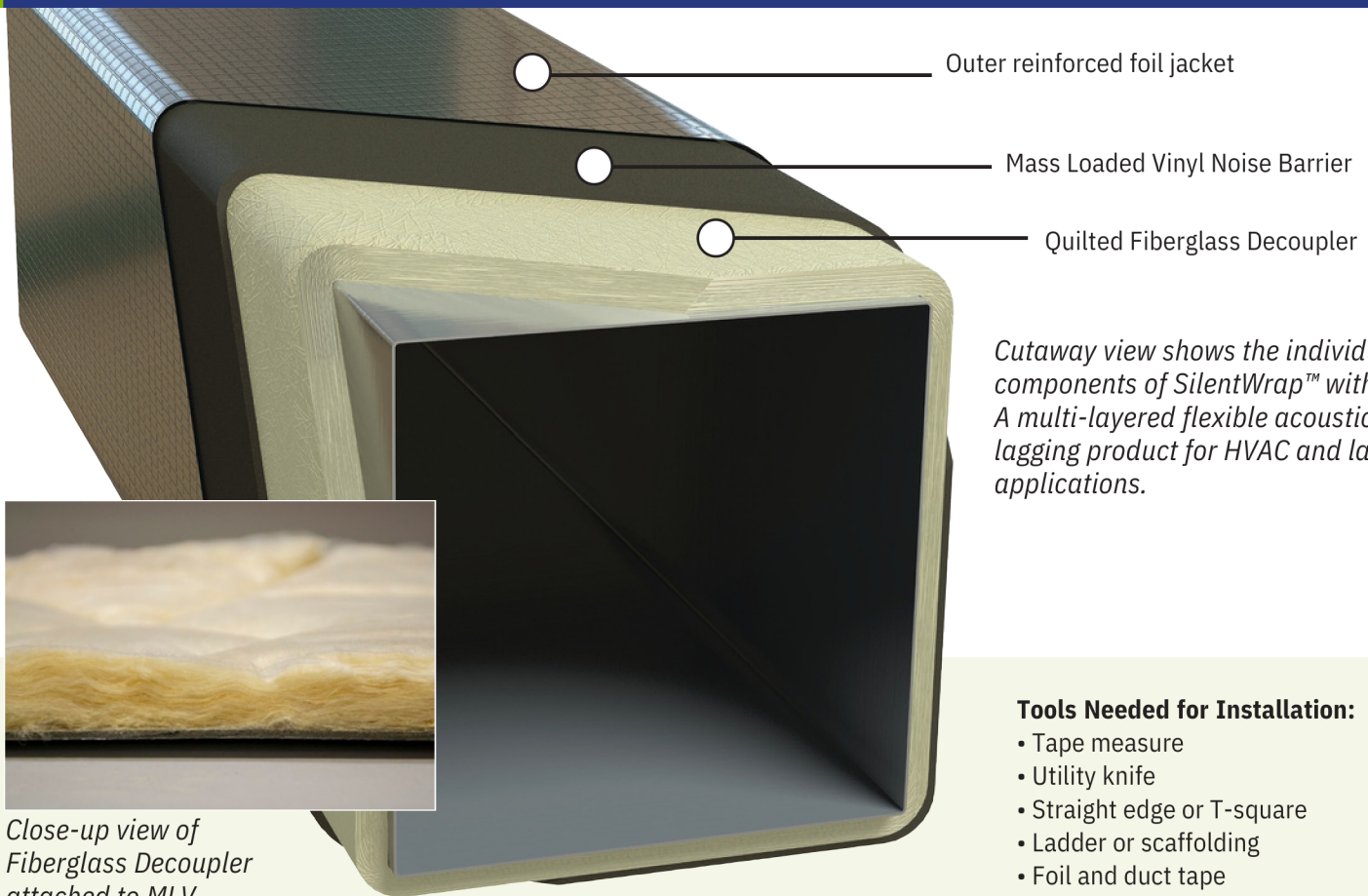
Cut the **SilentWrap™ with Lag** to a length sufficient to wrap completely around the diameter of the pipe with a 2" overlap. The product should completely encapsulate the pipe with no exposed piping showing.

Aluminum foil tape should be used to seal any overlapping edges both horizontally and vertically. To minimize waste, material should be rolled out tautly before measuring. Temporarily secure wrap in place using filament or duct tape. Cut the next adjacent piece to completely wrap around the perimeter of the pipe with a 2" overlap to the previously installed material. Continue this process until all the piping is covered while sealing all seams with foil tape.

Once the wrap is in place, permanently fasten the wrap with either metal or plastic banding.

SilentWrap™ with Lag should not be left exposed to the elements in an outdoor application. Please cover the installed product with some type of jacketing. We recommend metal jacketing for outdoor applications. For indoor applications, PVC Jacketing is recommended for protection of the installed SilentWrap™ with Lag, or it can be left as is with the silver foil showing as long as it is banded.

Need to order a large amount of SilentWrap™ with Lag? Please contact your sales rep by calling **877-399-9697** or visit us online at
www.soundacousticsolutions.com

HVAC APPLICATIONS

Outer reinforced foil jacket

Mass Loaded Vinyl Noise Barrier

Quilted Fiberglass Decoupler

Cutaway view shows the individual components of SilentWrap™ with Lag. A multi-layered flexible acoustical lagging product for HVAC and lagging applications.

Close-up view of Fiberglass Decoupler attached to MLV.

Tools Needed for Installation:
• Tape measure
• Utility knife
• Straight edge or T-square
• Ladder or scaffolding
• Foil and duct tape
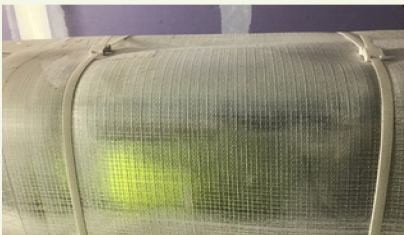• Plastic or metal banding

INSTALLATION INSTRUCTIONS

The surface of any HVAC ductwork that is being wrapped should be cleaned and free of dirt and oils.

Cut **SilentWrap™ with Lag** to a length sufficient to wrap completely around the perimeter of the ductwork, plus provide an overlap of no less than 2". The material should completely encapsulate the ductwork with no exposed metal showing.

Aluminum foil tape is used to seal cut edges of the wrap. To minimize waste, material should be rolled out tautly before measuring. Temporarily secure wrap in place using duct tape. Cut the next adjacent wrap to completely wrap around the perimeter of the ductwork with enough excess to provide an overlap of no less than 2". Repeat this process until the ductwork is wrapped.

Once the wrap is in place, seal all joints with foil tape and permanently fasten either plastic or metal banding. Use a minimum of 2" wide foil tape for sealing of joints or overlap.

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