

# Acoustiblok® Sound Isolation Membrane

## **READ ALL INSTRUCTIONS BEFORE INSTALLATION**

### **INSTALLATION OVERVIEW**

#### **INSTALLATION TYPE**

#### **CEILING INSTALLATION**

This installation overview provides suggestions for handling and installing Acoustiblok® Sound Isolation Material. Acoustiblok is a heavy, high density product (4.88kg/m<sup>2</sup>), so when preparing for the installation always schedule at least two installers for efficiency and safety.

With the exception of common hand tools, all tools and materials required for a professional contractor / installer, Acoustiblok sound installation materials are available only from Acoustiblok. Where available and required it is suggested to utilise an A-Frame Type Roller Stand Dispenser & Bar such as Acoustiblok RD350 Material Roll Dispenser for safety and ease of handling.

When possible, Acoustiblok Sound Isolation Material should be installed on the source side / noise side of the assembly. This will decrease the amount of acoustical energy that may be converted into mechanical noise.

It is essential that the treated room be sealed as airtight as possible using Acoustiblok Acoustical Sound Sealant, AcoustiGrip Jointing Tape and AcoustiPutty Sealant Pads. The effectiveness of your Acoustiblok sound treatment will be jeopardised if these steps are not taken.

Due to the weight of the Acoustiblok Sound Isolation Material, it is recommended that a 2 - 3 person crew be used for safety and installation efficiency.

## SUGGESTIONS / RECOMMENDATIONS

### WOOD JOIST CEILINGS

1. You will need to support the material in place for fastening and due to the weight it is recommended that you create a trapeze / roller support system to help with the handling of the material. Empty Acoustiblok roll cores, conduit, piping will work for this purpose. Using a suitable strength rope or wire, run it through the core and tie a loop at each end to hang from a nail inserted into the joist. Position and fasten the loop to allow for a quick and easy release after fastening the Acoustiblok to the joist. Pull the Acoustiblok Isolation Membrane off the roll from one end of the room to the other, threading over and across the top of the support system.
2. Allow enough slack in the Acoustiblok material so it hangs below the level of the joist at a distance that will allow you to comfortably lift and hold the material flush to the bottom of the joists to fasten it.
3. Ensure a modest overlapping of materials where possible and appropriate. Overlapping and doubling of material thickness can be carefully trimmed back to ensure a tightly abutted joint.
4. Fixings, fasteners / staples & collars should be spaced every 200mm - 250mm. Seal all overlaps, seams and perimeters with Acoustiblok Acoustic Sound Sealant and AcoustiGrip Jointing Tape. A nib of Acoustiblok Acoustic Silicone Sealant on the head of each and every fixing will also soften flanking transmissions.
5. You may also use a T-bar, drywall jack or other suitable method for your material support.
6. Where installing resilient channels / bars, attach the channels to the joist or frame at approximately 600mm o/c on top (to the underside) of the Acoustiblok Isolation Membrane.
7. A hanging track & channel framing ceiling system is recommended as it provides the greatest mechanical isolation from the floor assembly. You may also install 'top hat channel' perpendicular to the joists over (to the underside) of the Acoustiblok Isolation Membrane for additional ceiling isolation. Secure in place securely with screws through to the joists.
8. Fix the plasterboard / finishing board into the resilient bars with screws long enough to penetrate and secure the board and resilient channel / frame only. Do not penetrate the Acoustiblok Sound Isolation Material.
9. Maintain a 2mm - 4mm gap around the perimeter to isolate the ceiling from the adjacent walls. Fill this gap with Acoustiblok Acoustical Sound Sealant.

## SUGGESTIONS / RECOMMENDATIONS

### CONCRETE SLAB CEILINGS

Acoustiblok must have a framing member for attachment, requiring at minimum a furring channel for attachment. Finish installation and details as outlined in the previous wood joist ceiling installation.

### CEILING INSTALLATION NOTES

1. If your project uses recessed lighting / audio speakers it is important that you specify sealed units for the project. Sealed back fixtures provide a significantly better sound reduction than standard fixtures. It is recommended to incorporate acoustic / fire hoods where required. Do not install Acoustiblok Isolation Membrane to the near surround or enclose any lighting fixtures due to possible extreme temperatures and air flow requirements.
2. All penetrations should be avoided however they are sometimes required and essential. Any penetrations for ductwork, lighting, cabling etc....., can be achieved by cutting a suitable sized cross through which the object can be pushed. All penetrations must be sealed around the edges with Acoustiblok Acoustical Sound Sealant, AcoustiGrip Jointing Tape, and AcoustiPutty Sealant Pads.
3. Using higher density open cell cavity insulation within joist space and gaps may further enhance the sound reduction properties of an Acoustiblok treated ceiling assembly. We suggest using a at least a medium density stone / mineral wool product such as QuietFibre Open Cell Cavity Insulation to increase the sound reduction of the assembly and minimise increased resonance and regeneration which is likely from unfilled cavity spaces.

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