

ASC IsoDeck



- ◆ Dampens and isolates sound
- ◆ High density felt eliminates rubber “bounce” effect of other solutions
- ◆ Simple 1-2-3 installation
- ◆ Great for studios and home theaters
- ◆ The only product available that enhances interior sound while isolating the floor
- ◆ Proudly Made in the USA

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Effective Deck Isolation . . . Without the Bounce

Acoustic Sciences introduces the IsoDeck System, a non-rubber based solution for deck isolation. While rubber has long been regarded as an excellent isolator, its density under load actually transmits sound. At ASC, the industry leader in small room audio acoustics, our goal is to improve your room acoustics. We engineered our IsoDeck with a technical woven high density felt, the only isolator that won't transmit sound. Plus, we don't stop with just floating the deck on felt. We add WallDamp, a visco-elastic damping material that stops vibration cold. What you get with the ASC IsoDeck is superior isolation plus vibrational damping.

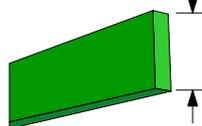
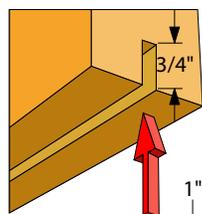
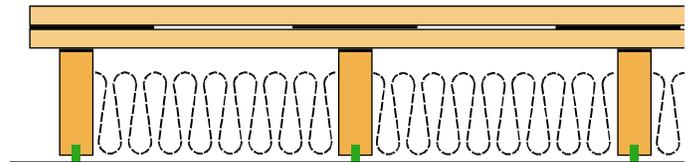


How it Works

The natural process of sound vibration creates friction and unwanted energy buildup through the bending and slipping of adjacent surfaces.

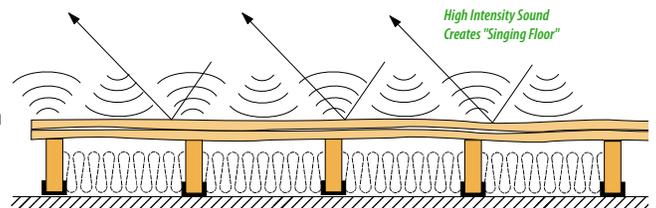
This in turn causes the floor to add unwanted acoustic coloration to your room. The IsoDeck isolates the floor,

using a unique high density 1" felt strip called a **slot loaded spring**, inserted into the bottom of every joist to float the deck. The felt is lightly glued into a 3/4" x 3/16" rabbeted groove. The top of each joist is covered with strips of damping polymer called WallDamp. Two layers of subfloor rest on the joists, separated by squares of WallDamp. With this system, even high power sub-bass energy is isolated and rapidly dissipated. You get real sound isolation, reduced floor resonance, and damping even when there's thunderous sound.



Why not Use Rubber Supports?

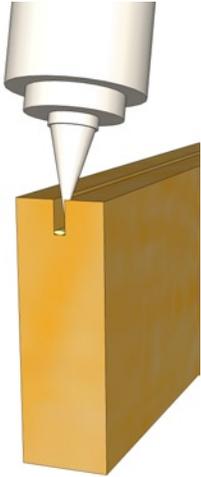
Consider your room as a giant guitar body. It resonates at certain sound frequencies, noticeable only when the volume is turned up. The floor helps to propagate the room resonance, so we want to isolate it with a deck. Rubber feet transmit sound, causing the deck to bounce which in turn causes acoustic problems in your studio or home theater. Conversely, the ASC IsoDeck floats on technical felt which doesn't transmit sound, there is no resonance. This in turn actually improves room acoustics while effectively isolating sound.



Easy to Install

The ASC IsoDeck uses a slot-loaded “spring” (Technical Felt) applied to the bottom side of a Deck joist assembly. This is followed by two layers of subfloor separated by layers of WallDamp. Installing the Technical Felt is a simple three step process.

1. Precut all 2 x joists to the size needed. Then cut a groove on one side, 3/16” wide, and 3/4” deep. This can be done using a dado blade in a table saw, or a router.



2. Apply a thin layer of white glue to bottom of groove. The glue should not touch the sides of the groove, and doesn't need to be continuous. We want just enough to keep the felt in place. A few dabs here and there is all you need.



3. Insert the 1” Technical Felt into groove, Let dry.



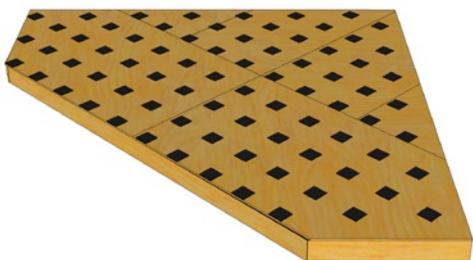
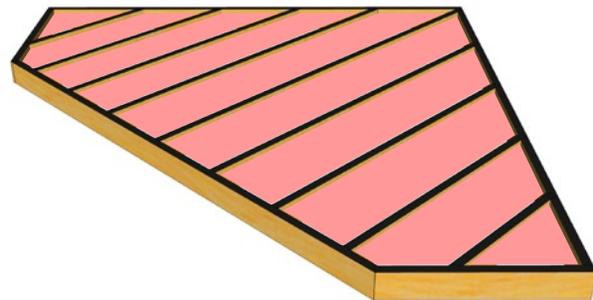
IsoDeck Specifications

Felt Size:	1” x 3/16”
Isolation:	Slot loaded spring
Felt:	High density technical
Fire Rating:	Class 1
Materials Supplied:	Technical Felt
	WallDamp Strips
	WallDamp Squares
Customer Supplied:	2 x framing
	3/4” plywood decking
	Batt insulation
	White glue

Build Deck

Now that the joists have been fitted with Technical Felt, the platform itself can be constructed. The IsoDeck consists of 2 x joists, 16” on center, with Felt applied to the bottom edge and WallDamp strips applied to the top edge. Then 2 layers of 3/4” plywood with WallDamp squares on 12” centers between the layers. Again, this is a simple three part process.

1. Framing is shown here with the Technical Felt resting on the floor, and WallDamp strips applied to all top edges of the 2 x members. Batt insulation is in each cavity. Use masking tape to mark location of joists on wall behind the platform and on platform face.



2. Apply the first layer of plywood, aligning the edges with the 2 x frame beneath. The adhesive of the WallDamp strips will tack hold the first layer of plywood in place. Apply WallDamp Squares on 12” centers over entire surface of Deck.



3. Apply second layer of plywood, offsetting seams. Screw through both layers of plywood and into framing, using 2 1/2” wood screws 10-12” apart. That's all there is to it!

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