

NOISE  
CONTROL

ACOUSTIC SCIENCES CORPORATION

# ISO-WALL SYSTEM



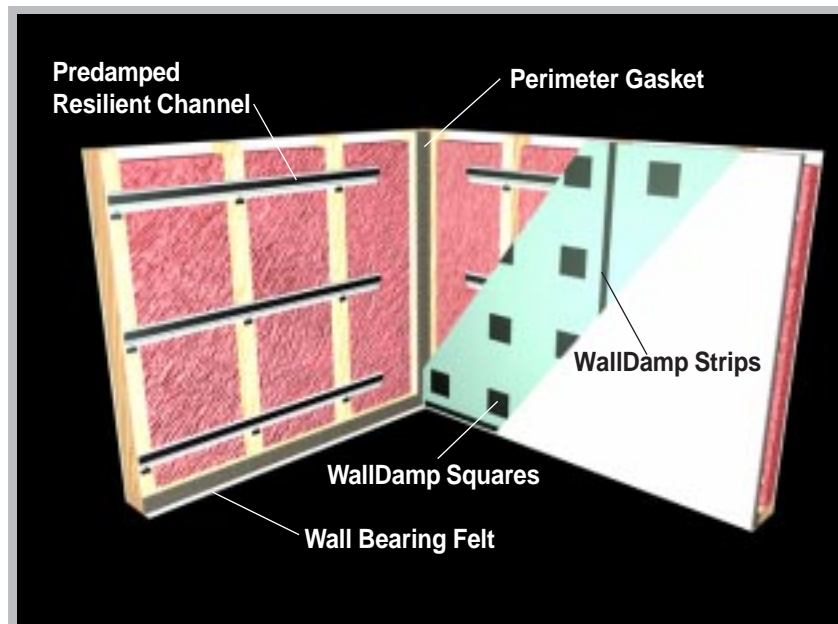
## Engineered for High Performance Applications

The ASC Iso-Wall System™ combines superior sound isolation, along with improved low-frequency acoustic control, into a single ready-to-install package. Designed for the most demanding environments, where the quality of the sound inside the room is as important as controlling the transmission of unwanted noise. A key component to improved performance is the use of WallDamp™ --a vibration-absorbing compound applied at the critical contact points throughout the system. The result: a calm, quiet room that maintains its acoustic integrity even at high-volume levels.

The ASC Iso-Wall System™ was first developed for use in the construction of professional recording studios and is now designed to be affordable and easy to install by any commercial contractor or “do-it-yourselfer”. It’s ideal for dealing with the increasing sound levels within home entertainment rooms. It also benefits workshops, laundry rooms, and isolating HVAC and plumbing systems.

## A Constrained Layer Dampening Technique

The natural process of sound vibration creates friction and unwanted energy build up through the bending and slipping of adjacent surfaces. WallDamp is a thin sheet of material designed as a damping interface between adjacent surfaces undergoing vibration. As a result, when it’s placed between the adjoining surfaces there is maximum damping action on vibration. WallDamp uses an energy absorbing polymer to convert the sliding action into a shear stress whose energy is rapidly dissipated. This increases the sound isolation, reduces wall/stud resonance, and dampens wall thundering.



For advanced sound and vibration control projects, nothing works better than our constrained layer damping system.

Call today for more information.

ISO-WALL  
CONSTRUCTION  
SYSTEM™

**ASC** ACOUSTIC SCIENCES CORPORATION

**Headquarters:**

4275 West 5th Ave.  
Eugene, OR 97402

**Contact:**

Ph: 541.343.9727  
Fax: 541.343.9245  
info@tubetrap.com

[www.asc-soundproof.com](http://www.asc-soundproof.com)

1 800 272 8823

ASC

Providing World-Class Acoustics

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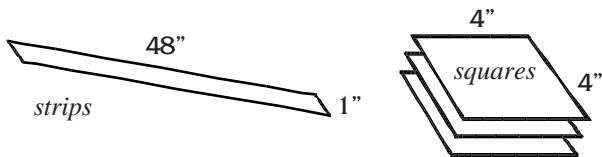
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## GENERAL SPECIFICATIONS



### COMPONENTS

- **ASC Iso-Wall System™ Materials are now sold as a complete integrated package** including: strips, squares, pre-damped resilient channels, perimeter gasket, acoustical sealant and wall bearing felt.
- **WallDamp is also available in these forms:** strips, squares and pre-damped resilient channels
  - All WallDamp is 1/16" thick.
  - Strips are 1" wide by 48" long.
  - Squares are 4" by 4" on edge.
  - Predamped resilient channel is 6 feet long, by 1/2" thick

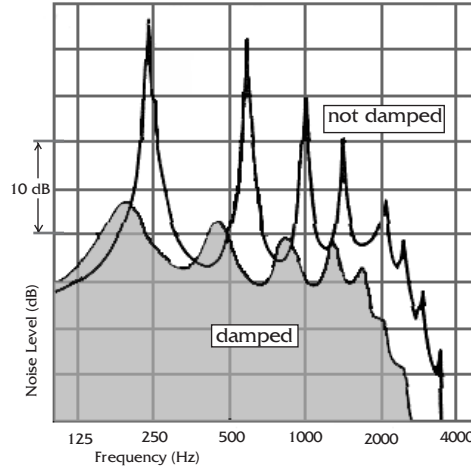


WallDamp's double-sided adhesive with release paper comes ready to apply to the interfaced surfaces of your construction project.



### PROPERTIES

*damped vs. non-damped vibration*



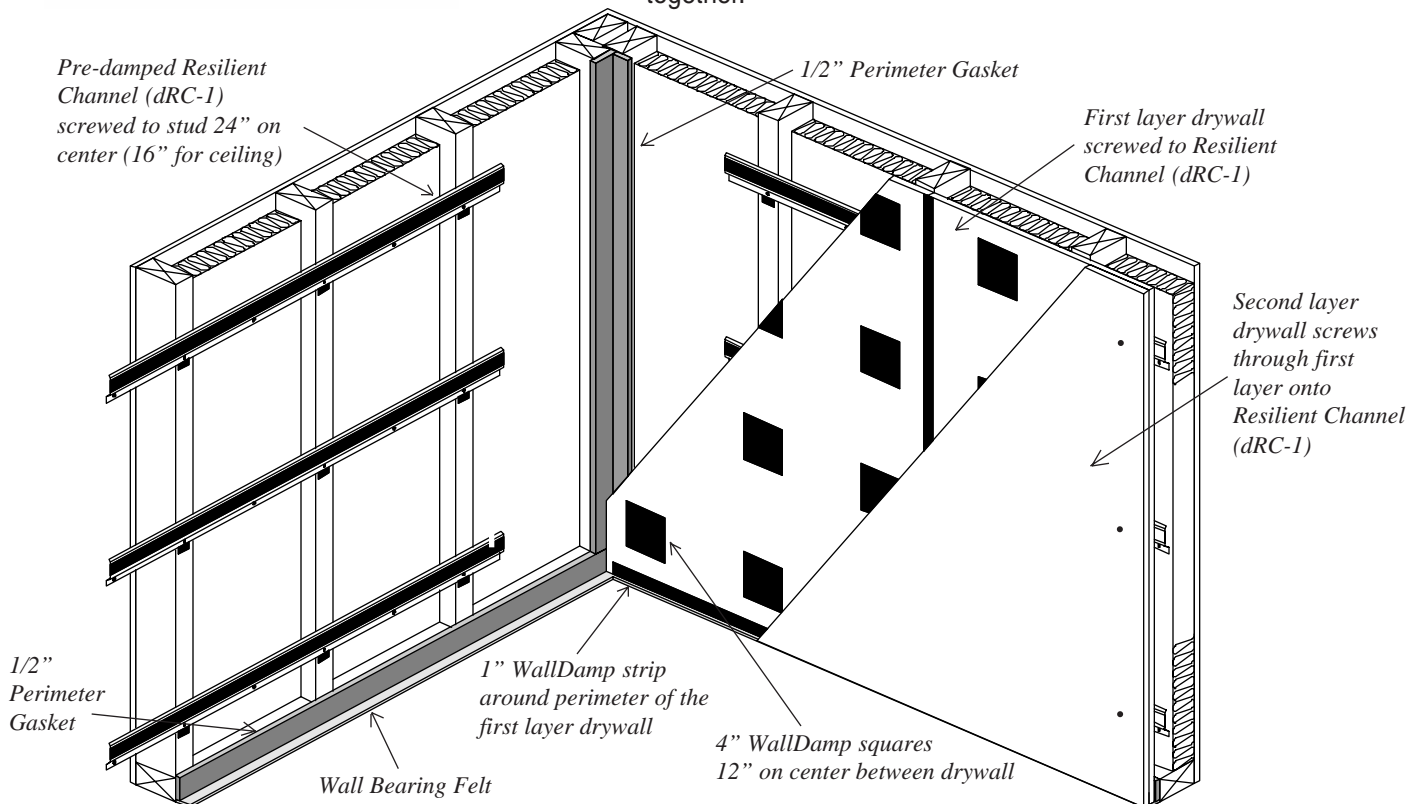
WallDamp can be used between wood, metal, drywall, glass or a combination of these surfaces.

A typical application of WallDamp Squares and Strips in wall construction is shown below. Adjacent surfaces are lined with energy absorbing WallDamp Squares and

Strips. Continuous surface coverage between two layers of drywall is not necessary. Damping as little as 11% of the surface is sufficient to significantly absorb energy.

### APPLICATION

To apply WallDamp, clean the surface of the building material and remove one side of the release paper. Apply the exposed adhesive to the side of the material joint. For final assembly, remove the second layer of release paper and screw, nail or rivet the materials together.



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