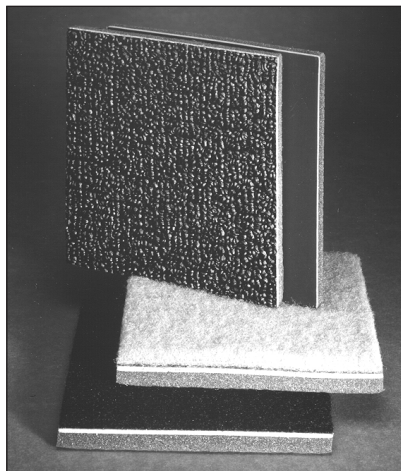


# ISODAMP® Barrier/Damping Composites



## Product Applications

*Trucks*

*Buses and coaches*

*Boats and ships*

*Farm equipment*

*Generators, pumps, compressors*

## Multi-function Noise Control Products

- Reduce noise transmission
- Reduce panel vibration
- Absorb shock
- Resist moisture penetration
- Available with decorative facings
- Increase thermal insulation

ISODAMP damped decoupled barrier composites combine a proprietary high performance damping foam with a loaded vinyl acoustical barrier and optional decorative facings. The multi-layer, multi-function materials effectively and economically control unwanted noise and vibration.

The foam and barrier layers work together to compound the noise control performance—transmission loss—of barrier-only treatment but add minimum weight. For example, doubling the weight of a barrier improves transmission loss by 6 dB per octave; adding a foam layer to decouple the barrier from the substrate typically achieves about an 18 dB per octave transmission loss. Employing a damping foam as the decoupler helps further by controlling structureborne vibration as well.

E-A-R manufactures ISODAMP damped decoupled barrier composites with a proprietary process that co-casts the liquid damping foam formulation directly onto a liquid, loaded vinyl barrier layer in a single pass. During processing, the layers fuse chemically. Additional layers, such as protective films or decorative facings, may then be applied to the composite.

ISODAMP damped decoupled barrier composites can be thermoformed and pressed into place, or applied with pressure-sensitive adhesive. They readily conform to irregular surfaces, such as engine firewalls, floors and equipment enclosures, and are ideal for vehicle interior trim applications.