

# Fibersorb™ Curtain Systems

A McGill AirSilence™ product

United McGill® products



Fibersorb curtain system

## Product Specifications

Moderate industrial noise control problems (requiring 5-25 dBA noise reduction) can often be solved with McGill AirSilence's flexible acoustical curtain systems. Made of durable panels, McGill AirSilence's curtain systems are designed for the toughest industrial environments. Whether acting as full or partial enclosures, machinery shrouds and hoods, partitions, or barrier walls, they prevent the transmission of machine-generated noise throughout the work environment without hampering worker access to the machinery.

McGill AirSilence offers three main types of panels for its curtain systems: single-layer blocking, double-layer blocking, and absorption. Transparent panels are also available.

McGill AirSilence curtain systems provide the following features and benefits:

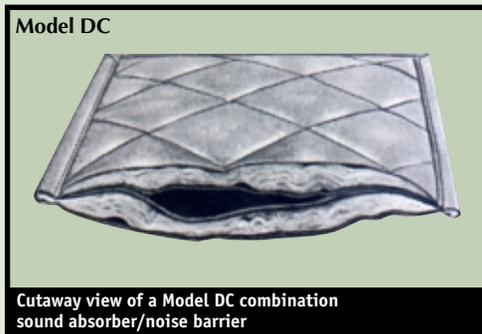
- Noise reduction up to 25 dBA
- Quick access to machinery and equipment
- Custom engineered systems to fit your application
- Easy to install, relocate, and modify
- Fire safe with low smoke emissions per ASTM E-84, Class 1
- Roof panels and ventilation systems available when required
- Optional observation windows
- Long service life

### Single-Layer Blocking Panel

The single-layer blocking panel is ideally suited for isolating a noise source located on one side of the curtain system. A single-layer panel is designed with 1-inch fiberglass insulation sewn to one side of a vinyl barrier. The insulation absorbs noise and the vinyl barrier blocks its transmission to other areas.

### Double-Layer Blocking Panel

The versatile double-layer blocking panel is ideal for isolating multiple noise sources located on both sides of the panel. It consists of a vinyl barrier sandwiched between two layers of 1-inch thick fiberglass insulation. The double-layer blocking panel absorbs noise and blocks transmission of sound coming from both sides of the curtain.



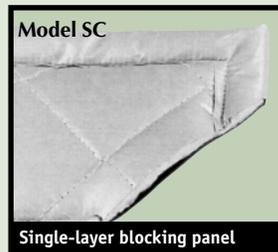
Model DC

Cutaway view of a Model DC combination sound absorber/noise barrier

### Absorption Panel

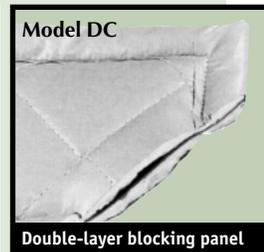
The absorption panel absorbs noise. The system consists of 2-inch quilted fiberglass panels that are usually attached to an existing wall or barrier to reduce reverberent noise.

McGill AirSilence's curtain systems prevent the transmission of machine-generated noise throughout the work environment without hampering worker access to the machinery.



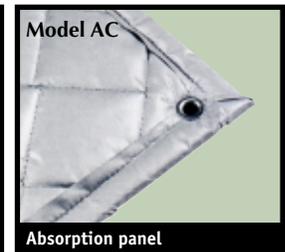
Model SC

Single-layer blocking panel



Model DC

Double-layer blocking panel



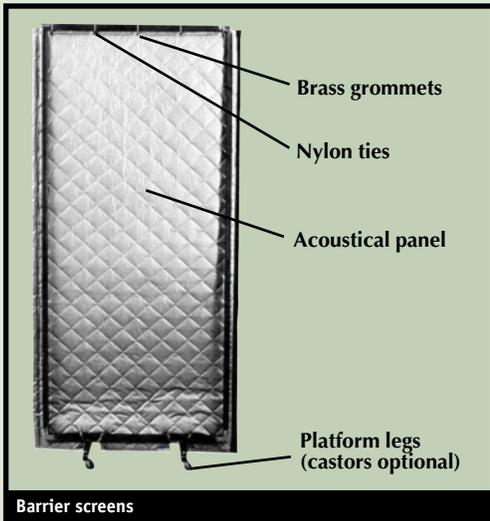
Model AC

Absorption panel

### Absorber and Barrier Curtain System Use Factors Summary

Model No.	Use Factors
SC	Total and partial enclosures, shrouds, and hoods. Noise source on one side. Noise reduction objectives: 10-20 <sup>1</sup> dBA. Maximum curl, tear abuse resistance.
SC-2	Total and partial enclosures, shrouds, and hoods. Noise source on one side. Best product combining the durability of a 1 lb/sq ft reinforced acoustical barrier with a 2-inch-thick faced fiberglass absorber offering maximum performance (STC=32, NRC=0.75). Noise reduction objectives: 20-25 <sup>1</sup> dBA.
DC	Separator walls and divider partitions. Noise source on both sides. Maximum performance (STC=33, NRC=0.75). Noise reduction objectives: 20-25 <sup>1</sup> dBA. Barrier septum 2 lb/sq ft.
DC-2	Separator walls and divider partitions. Noise source on both sides. Noise reduction objectives: 10-20 <sup>1</sup> dBA. Most economical of both styles employing 1 lb/sq ft flexible barrier and 2-inch absorber. Passes ASTM E84-84a; Class 1 fire rating.

<sup>1</sup> Actual noise reduction can vary with application and may exceed these values.



### Barrier Screens

An alternative to McGill AirSilence's free-hanging curtains is our mobile acoustical barrier screen. Standard screens run 4 feet wide by 8 feet high, but custom-made screens are available. The screen consists of an 18-gauge steel frame with supporting legs and curtain panels which are fastened to the top of the screen with grommets. Screens are an effective means of noise control where mobility is desired.

### Roll Goods

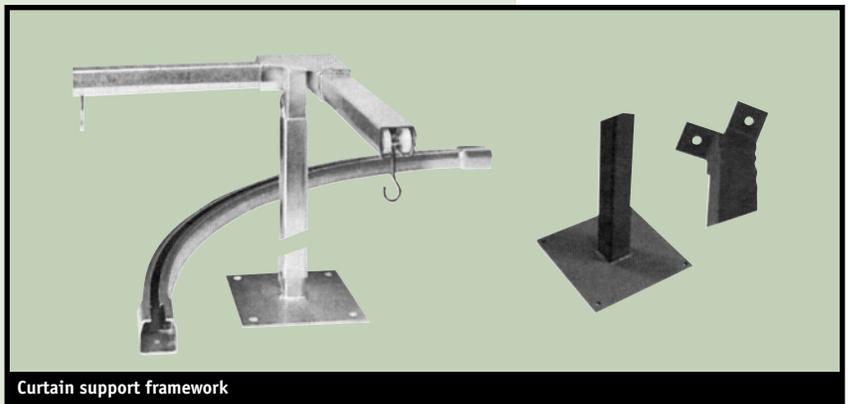
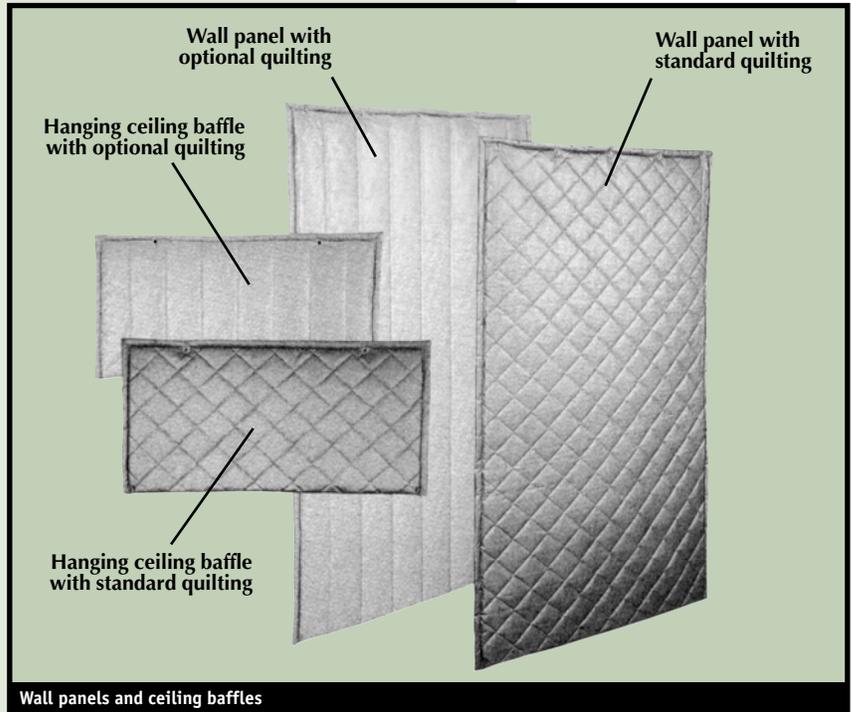
- In 25-foot to 50-foot lengths
- Standard width 48 inches, custom widths available
- Available with bound and sewn finished edges or unbound edges

### Sound Absorption Wall Panels and Overhead Ceiling Baffles

- Reduce reverberation
- Add sound absorption to the environment
- Lower noise levels
- Tone room, turn hard reflective surfaces into soft, sound absorptive surfaces
- Improve communication

### Curtain Support Framework

- Standard curtain track and hardware system manufactured from heavy-gauge galvanized steel components
- Floor mounted, beam mounted, suspended, wall mounted, and ceiling mounted styles available
- Double-track configuration allows for slide-by access at any point
- Curved corner options allow for even greater access
- Type "H-D" heavy-duty frame (optional) features structural steel tubing for maximum strength to accommodate larger enclosures



## McGill AirSilence LLC

An enterprise of United McGill Corporation — Founded in 1951

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