



Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

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We Identify and S.T.O.P. Your Noise Problems

Wallmate® and Echo Eliminator™ Panels Solved Pharmacy's Reverberation and Noise Level Problem

By Ted Weidman

WALMART PHARMACY IN MUSCLE SHOALS, ALABAMA

If you are in north-western Alabama or southern Tennessee and want to see some of our Wallmate and Echo Eliminator panels installed, I have just the place. This is the Walmart in Muscle Shoals, Alabama. I received a call from an architect who was looking for some custom acoustical treatment to reduce the reverberation and noise level in the pharmacy area of a local Walmart. After some discussion and some product review, here it is.

When acoustical treatment is required for an existing room or space, a few important factors come into play. These factors are usually panel size and

“The overall result was a lower sound level in the working area for the employees of the pharmacy.”

aesthetics. The panels or wall treatment need to fit onto the existing, available wall spaces and not alter the look of the space too much. It is impossible to acoustically treat an area without changing the aesthetics in some way, but being able to choose a fabric for the face which blends into the wall color is a major advantage.

With these two factors (size and color) in mind, it fairly quickly limits the number of acoustical treatment options. The two products that we have to offer with the ability to choose the size and shape of the finished

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Above: This picture shows how the installer was able to site fabricate a wall panel to specific dimensions. The ability to build panels specific to the size of the available wall space is a great way to fit acoustical panels into an existing room where the installation looks intentional.

Below: The longer panel shown here shows how the white Echo Eliminator recycled cotton panels are installed onto the existing sheetrock wall before the fabric is stretched over them. The fabric in this system needs to be acoustically invisible so the sound is able to easily pass thru the fabric and be absorbed by the cotton panels.





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product is our Fabric Wrapped Fiberglass Panels and the Wallmate high-tension wall fabric system. Each of these has its respective advantage and disadvantage and I will do my best to explain each.

The Fabric Wrapped Fiberglass Panels start out as a board of fiberglass, usually 4 x 8 or 4 x 10 and are cut to the size(s) specified by the customer. We will use a few different tools to create different edge contours (square, radius, bevel or half-bevel) and resin harden the edges for durability before wrapping the fiberglass with an acoustically invisible fabric. There are hundreds of fabrics that we have to choose from and the prices for each different style vary. These panels are completely pre-fabricated and shipped ready to install.

The other option when it comes to custom panels is our Wallmate stretch wall system. I like to use the analogy of a canvas painting for this product where a canvas is stretched over a wooden frame. The frame supports the tension of the canvas and keeps it taut. For this product, we provide a two-piece track, or frame. The frame goes around the perimeter of each panel that is being built and is stapled or screwed to the wall. Our Echo Eliminator recycled cotton panels are then glued to the wall inside of the frame and are used as the acoustical core. After the panels are installed, a double sided tape is put on the profile of the track which will hold the fabric as the installer aligns it. When the fabric is in place, the edges of the fabric are rolled into the track and the top profile is snapped into the base. This process stretches the fabric and creates a smooth, uninterrupted fabric surface. There is a little bit more labor involved on site, but the installer can build panels that are only limited by the width of the fabric bolt.

In this case, the Wallmate system was chosen and the pictures show the building process. The overall result was a lower sound level in the working area for the employees of the pharmacy. Creating an absorptive environment allows people to speak softer and still be able to be understood by a listener.



These pictures also show the white Echo Eliminator panels before the fabric was put into place. This installer used button-head screws to hold the WallMate base track to the wall. The picture below shows one long panel that was site fabricated to fit into the room which looks much cleaner than multiple smaller panels installed one next to another.



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If you have any questions about this installation or need any additional information or product samples for either of these, please feel free to contact Ted Weidman at 800-527-6253 (ext. 25) or ted@acousticalsurfaces.com



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