

Noise Walls – Aesthetics

Noise Wall System (Type / Composition)

A noise wall system consists of several different components, most importantly the panels and posts. Posts are made from steel or reinforced concrete. Panels are made of a sound absorbing surface attached to a reinforced concrete structural core. The amount of noise a wall absorbs is dependent on the amount of voids or pores in the panel surface. The main difference between preapproved noise wall manufacturers is their proprietary sound absorbing surface. WisDOT currently allows the use of 4 panel products:

Durisol is made of chemically neutralized and mineralized organic softwood shavings bonded together under pressure with Portland cement.

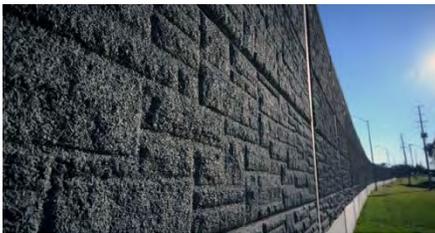
SoundSorb, AcoustaCrete and JBM75 are made of sound absorptive concrete. Each product uses specific proprietary ingredients and patented mixing methods to produce the desired amount of voids and pores for noise absorption. Ingredients commonly include cementitious binder, raw or recycled concrete materials, fiber reinforcement and various concrete additives.

Post spacing can vary from 12 to 30 feet in length. Panel sizes can vary from 12 to 30 feet in length and 18 to 48 inches in height.

Periodically, WisDOT reviews new and improved wall systems to update their prequalified noise wall product list.

Color

The Department only allows the final color of the panels and posts to be *earth tone browns and tans*. Up to 2 colors may be selected for either side of the noise wall. Some of the concrete noise walls can be painted or stained. Examples of several color types are shown below.



Durisol – Brown



Durisol – Beige



Durisol – Natural



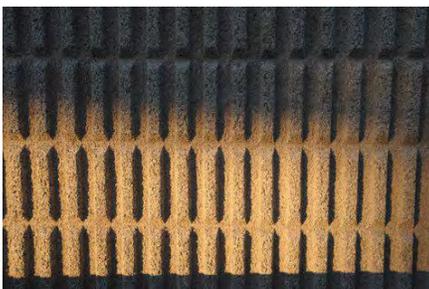
SoundSorb – Beige



SoundSorb – Brown



AcoustaCrete – Brown



AcoustaCrete – Beige



JBM75 – Darker Tan



JBM75 – Lighter Tan

Noise wall graphics provided by: Armtec, Concrete Solutions, Inc., Faddis Concrete Products and JBM Solutions, Inc.

Patterns

Each preapproved manufacturer offers a wide variety of patterns to choose from (i.e. stone, brick, flat, smooth, grooved, basket weave, ashlar stone, ribbed, etc.). Up to 2 patterns may be selected for either side of the noise wall. Examples of several pattern types are shown below.



Durisol – Plain Flat



Durisol – Vertical Ribs



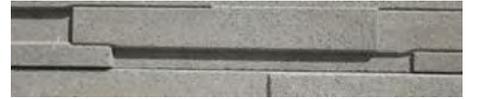
Durisol – Richmond Flute



Durisol – Natural Stone



Durisol – Drystack



Durisol – Basket Weave



Durisol – Pressed Ashlar



Durisol – Shiplap



Durisol – Triple Split



SoundSorb – Ashlar Stone



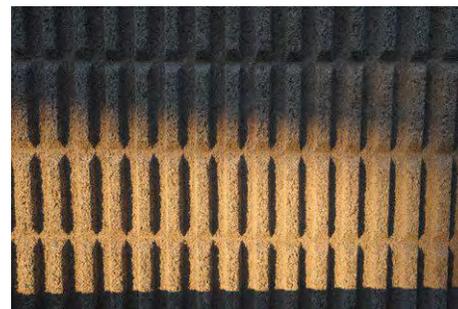
SoundSorb – Natural Stone



SoundSorb – Ribbed



AcoustaCrete – Field Stone



AcoustaCrete – Fluted



AcoustaCrete – Ashlar Stone



JBM75 – Natural Stone



JBM75 – Plain Flat



JBM75 – Stone

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