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.

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.

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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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