



Stage 2 Noise Wall Product Fact Sheet

Maple Leaf's noise wall will be lighter and greener than noise walls we have built in the past. We are building Wall 1-North with Carsonite AcoustaShield, a sound barrier system that consists of interlocking planks made from a composite that is strengthened with fiberglass and filled with ground-up tire rubber.

We selected this material instead of traditional materials, such as concrete or wood, because the newer material is lighter weight and will help us to accommodate

Sound Transit's light rail project which is planned for the same location. We can disassemble it and reuse it somewhere else if needed in the future, while traditional materials don't have this option. Carsonite also has a smaller footprint, leading to less construction impacts than traditional materials.



Preliminary design concept showing Carsonite AcoustaShield. View of 1st Avenue NE looking north.

Benefits of Carsonite

- Potential to disassemble and reuse the product.
- Anticipated noise reduction is similar to concrete.
- Appearance will blend with concrete walls used around the state.
- Durability and resistance to fire and vandalism.
- Lightweight and adaptable.
- Smaller footprint than traditional materials.

New and innovative use in Washington State

The use of a non-concrete type of noise wall is new and innovative for the state. We plan to monitor the effectiveness of the noise wall. We also plan to evaluate the maintenance requirements and qualities compared to a traditional concrete wall.

What does Carsonite look like?

The Carsonite product is constructed of a composite that is strengthened with fiberglass and filled with ground-up tire rubber. The narrow interlocking planks will be installed vertically like fence slats.

Anticipated noise reduction benefits from Carsonite

We anticipate that Carsonite will provide the same noise reduction benefits as a traditional concrete wall. Our noise analysis shows a reduction in highway traffic noise of up to 9 decibels (dBA) in some areas. To the human ear, a 10 dBA reduction sounds half as loud as the original noise level. Generally, properties closest to the proposed wall can expect to experience the greatest benefit.



*Side view of Carsonite
AcustaShield*

Questions?

- **E-mail:** NWNoiseWalls@wsdot.wa.gov
- **Visit our Web site:** www.wsdot.wa.gov/Projects/I5/5thAveNEtoNE92ndNoiseWall
- **Call:** 206-770-3636

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