

Reference

## PLEXIGLAS®

### TxDOT Implements Transparent Noise Barrier To Reduce Persistent Highway Noise



#### Market segment

Industrial Construction & Architecture,  
Noise Barrier

#### Location

Dallas, Texas

#### Product

PLEXIGLAS® Soundstop

#### Selection criteria

- successful in reducing noise
- the transparency of the material
- long-term weather stability
- ability to talk with other states that have used these barriers previously

#### Fabricator

Armtec Infrastructures Inc.

#### Description of the application

The primary challenge for Texas Department of Transportation (TxDOT) was to find a way to reduce the high noise level for nearby home-owners while staying within budget and not blocking the view of nearby Stevens Park. At the heart of the problem was the existing eight-foot-high noise barrier, which was too short to provide sufficient noise reduction on I-30. The only solution was to increase the height of the barrier to 18 feet. Due to these constraints, TxDOT tried a variety of solutions including quiet pavements asphalt mix and attaching noise absorbing panels to the walls on the opposite side of the highway – all without adequate success. Not until Mark McIlheran P.E., consulting engineer for Armtec Infrastructures Inc. mentioned PLEXIGLAS® Soundstop as a potential solution to George Reeves, traffic noise analysis and abatement coordinator for TxDOT, did the possibility to extend the height of the noise barriers without negative impacts on the community become a real option.

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