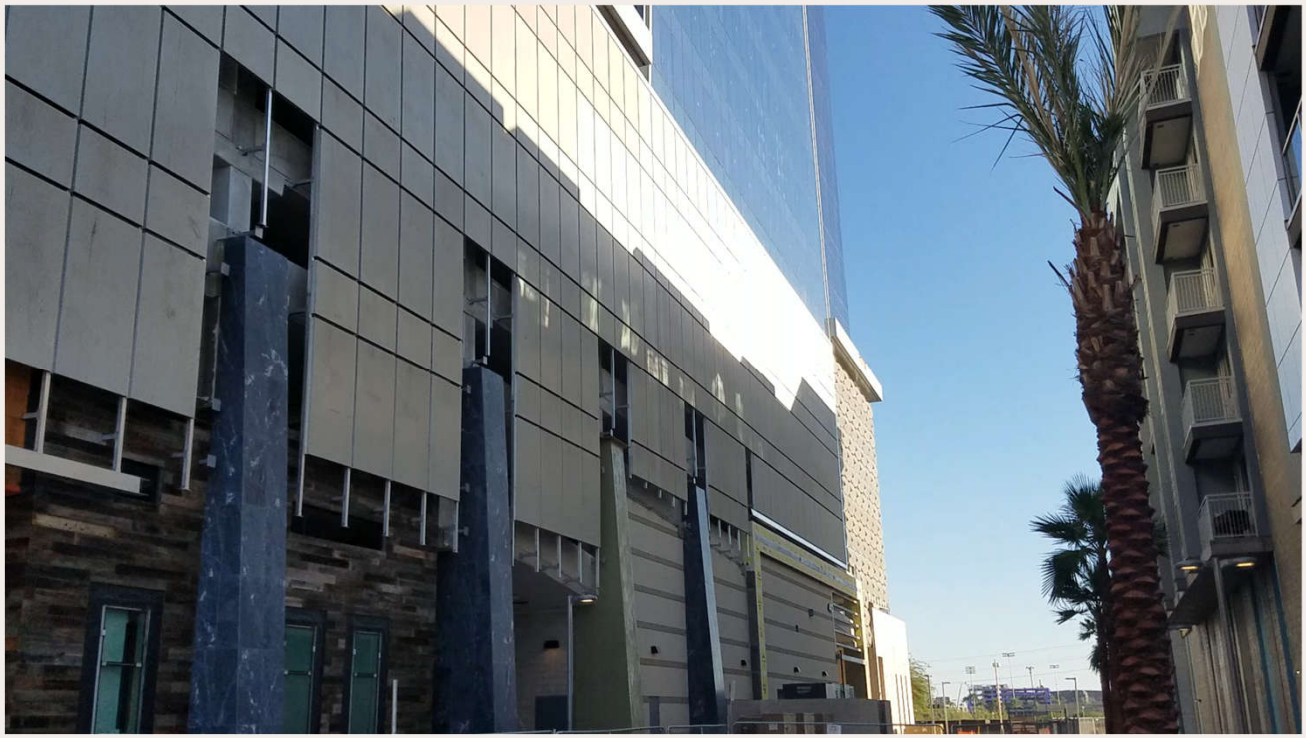
Meet Our Team

And more!

The Problem



Source Identification

Impact Hammer Tests

- 3 accelerometers
- 12 measuring positions
- Modal analysis shows panel resonances that match the acoustic spectrum of the building

Experimental Results

No Paint

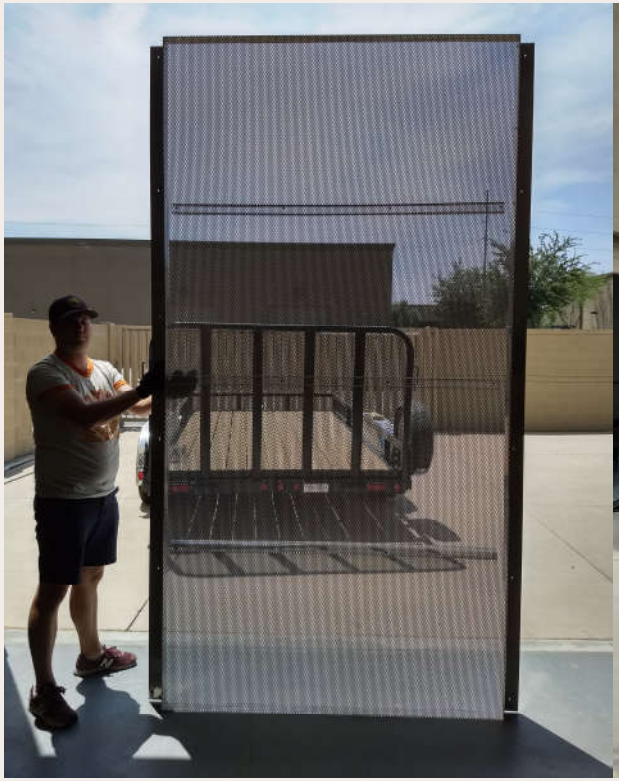
1 Coat of QuietCoat

2 Coats of QuietCoat

MD ACOUSTICS

No Wind Tunnel: No Cry

- At about 18 mph, the panel starts to whistle.
- At 20-30 mph, it really gets going.

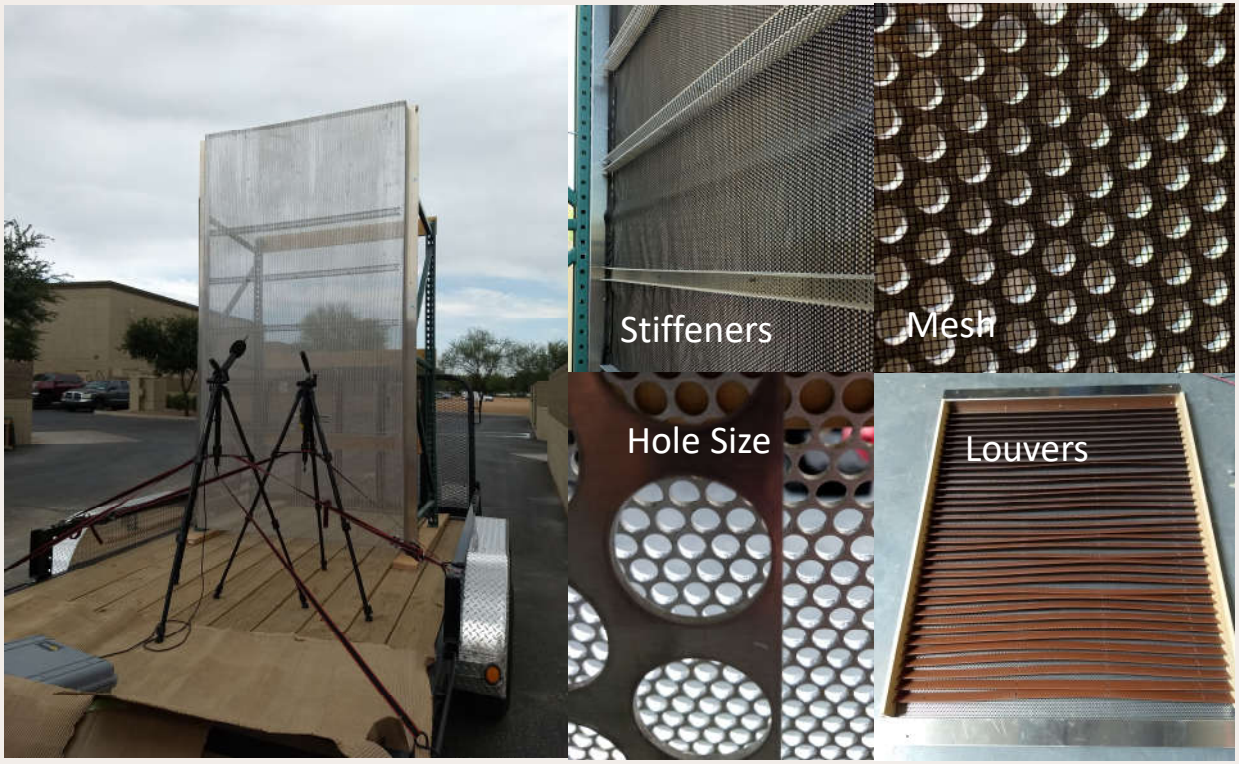


No Wind Tunnel: No Cry

- The client did NOT want to use paint, so we explored other options:

- Stiffeners
- Mesh
- Louvers
- Larger holes

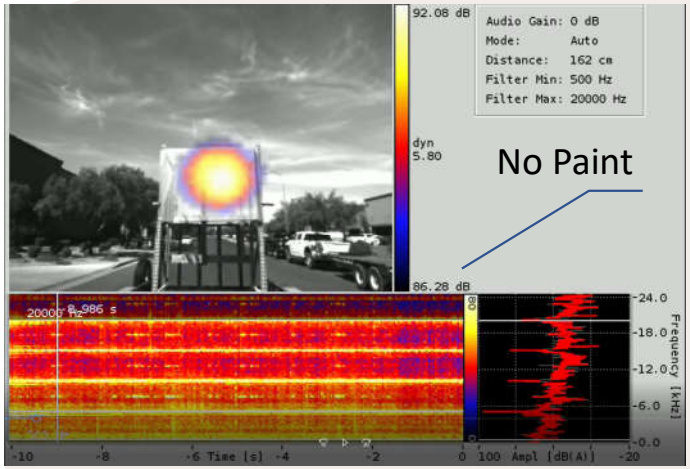
Not pictured: brave lab member who rode in the truck with the sound camera



Acoustic Camera Tests

- Sound Camera operator located in the bed of the truck pulling the trailer
- No lab members were harmed during this project

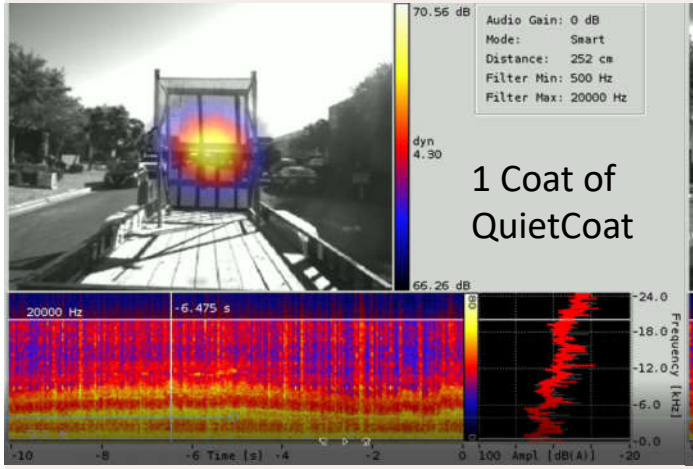
Experimental Results



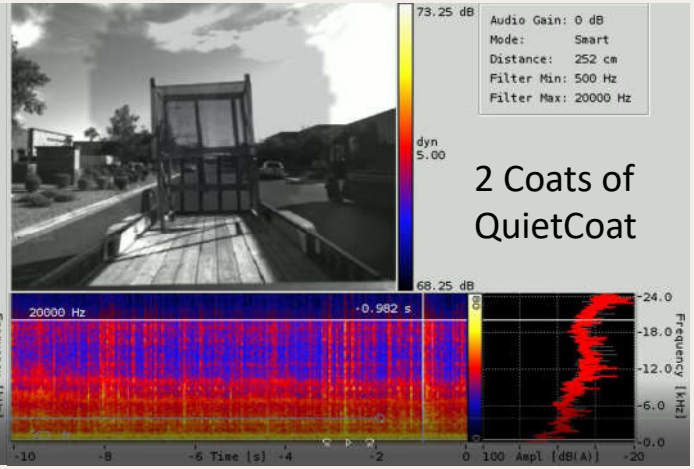
No Paint

Sharp lines in the spectrogram show the harmonic resonance of the panel

With the Quiet Coat applied, the harmonics dissipate then disappear



1 Coat of QuietCoat



2 Coats of QuietCoat

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Thank you for your attendance!

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