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Animal Shelter Noise Attenuation

Technical Data

APPLICABLE STANDARDS

- ASTM C423 Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
- ASTM E84 Standard Test Method for Surface Burning Characteristic of Building Materials
- ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- ASTM E413 Classification for Rating Sound Insulation

PHYSICAL PROPERTIES

- Waterproof, cementitious wood fiber board to ASTM C612 Type 1A or 1B
Sound transmission class (STC) - 45, ASTM C423
- Reverberation time - 1.25 seconds or less, ASTM C423
- Sound absorption coefficients - Type B and A mountings, to ASTM C423

FIRE PERFORMANCE

- The system is UL classified as noncombustible per ASTM C136 and complies with ASTM C665 Type 1 Surface burn characteristics
- Flame spread - 5 or less, ASTM E84
- Smoke developed - 0, ASTM E84
- Impact resistant and bullet absorptive
- Troy System is comprised of 2 primary components that absorb, trap and muffle sound energy:
 - Troy Board^a : a composite wood fiber cement matrix board composed of dimensionally stable, unfaced rigid cement wood fiber board containing only natural materials.
 - Troy Wool^a, a high density mineral wool. Troy Board is Board density is 3.5 psf minimum per 1" (25.4 mm) section.

- Troy Board and Troy Wool contain no asbestos, urea- formaldehyde or CFC blown agents.
- Troy Board structural acoustical boards are rugged, strong and waterproof. The natural components that make up Troy Board material are impregnable to the elements, thus enabling the system's use for both interior and exterior applications.

LOAD WEIGHTS FOR USE IN HARD LID GRID CEILING

- Load weight of 4.25-4.8 psf for typical 1" (25.4 mm) Troy Board with 4-6" Troy Wool for use in ceiling tiles

LOAD WEIGHTS FOR SIDE WALLS ABOVE 8' HEIGHT

- Load weight of 6.5 psf for typical 2" (51 mm) Troy Board with 1.5" Troy Wool sidewall treatment

OTHER INFORMATION

- Installation shall comply with the requirements of all applicable local, state and federal code jurisdictions
- Pricing DOES NOT include a pre-site visit, onsite visit by noise attenuation manufacturer and sound testing.
Additional pricing available upon request
- Troy Acoustics has over 5 years Animal Shelter acoustic design experience
- Troy Acoustics guarantees that the system will perform acoustically for a period of 5 years
- Installation shop drawings are typically included in pricing. See formal proposal for details.
- The Troy System site-specific Troy design offers significant absorptive values to reduce noise exposure limits to meet the US Department of Labor OSHA permissive exposure limits (PEL).
- In order to meet minimum OSHA requirements it is recommended that the patented Troy System cover the entire ceiling area of the kennel and all side walls above 8' high.
- In order to comply with local zoning noise ordinances a copy of the detailed drawings are required. A site-specific design is required to assure compliance.
- Although animal shelters are encouraged to meet the more stringent NIOSH REL, at a minimum, the kennel must meet the US Department of Labor OSHA permissive exposure limit (PEL)