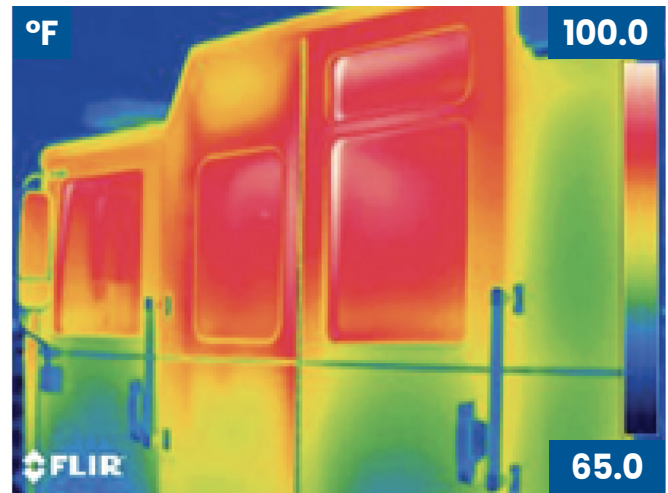


Case Study of Thermal and Acoustic Package Results

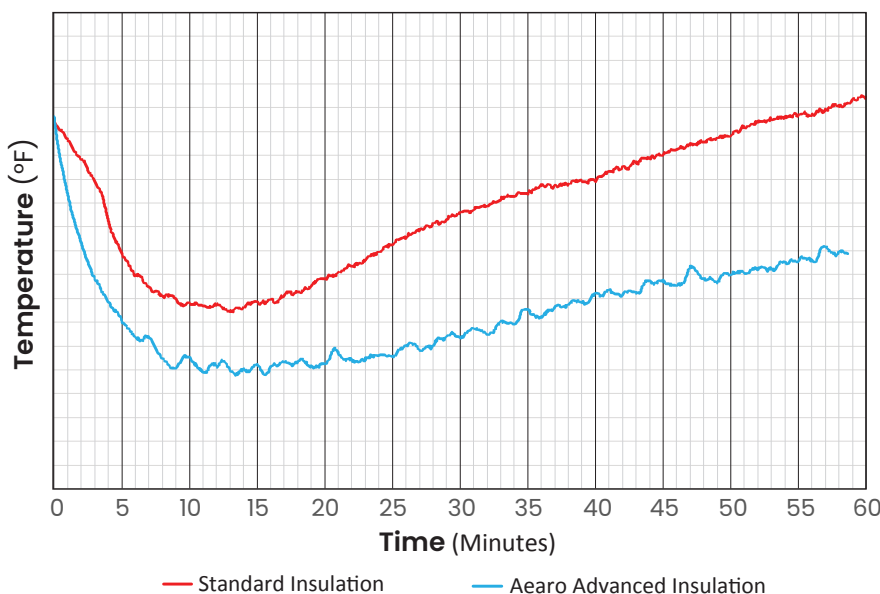
Fire truck cabs can be a welcome respite after the blazing heat and loud noises of the fireground. Aearo Technologies delivers custom designed thermal and noise insulation truck packages that create a more comfortable and quieter cab when firefighters return to the truck.

These engineered packages can improve efficiency and decrease energy requirements since a lower cabin temperature will reduce the reliance on running the air conditioning system at the highest level for long periods of time.

In Aearo's Acoustic Technology Center, test engineers were able to create and install a custom treatment package that improved total cabin heat transfer (outside/in or inside/out) by 10%. This reduced the HVAC load by 10% at night or in shadow, when solar loading is not present.



**Cab Average Temperature vs. Time
HVAC Pull-Down Test**



Whether the issue is high heat or freezing temperature, Aearo packages help keep you comfortable in real-world scenarios.

In the heat of summer, when the truck is idling and the engine and equipment are running, the truck cab temperature quickly rises. With Aearo insulation and thermal materials, the air conditioner can keep the cab 6% cooler than without the custom package.

The custom package includes fiber insulation surrounding the cab to insulate it from the outside temperatures and thermal materials throughout the engine compartment to keep the engine and equipment heat from penetrating the cab area.

Case Study

Noise Control and Thermal Protection for Emergency Vehicles



For over 50 years, Aearo Technologies LLC has been dedicated to building high-performing solutions that help control unwanted energy, provide protection, and enhance efficiencies in our customers' products. With a complete product line, advanced materials technology and extensive analytical capabilities, Aearo can engineer and deliver cost-efficient, on-target solutions tailored to fit the requirements of virtually any thermal or acoustic application.

Advanced Engineering Capabilities

Aearo Technologies LLC uses a system approach to treat all noise and heat sources, creating the optimal package for every environment. Our Acoustic Technology Center boasts one of only two large vehicle hemi-anechoic dynamometer rooms in the country, a hemi-anechoic room, and reverberant chambers. It is uniquely equipped to meet customer goals by pinpointing thermal and acoustic problems, modeling outcomes, and validating results to create custom solution packages.



Technical Information

The data listed in this data sheet are typical or average values based on tests conducted by independent laboratories or by the manufacturer. They are indicative only of the results obtained in such tests and should not be considered as guaranteed maximums or minimums. Materials must be tested under actual service to determine their suitability for a particular purpose.

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