

Incirlik Airfield Fire/Crash Rescue Station



The 39th Civil Engineer Squadron grand opening of the new Airfield Fire Crash Rescue Station on April 19, 2024.

The primary purpose for constructing the facility was to further enhance the installation's readiness and modernization to respond to future challenges and emergencies. Construction of the building started in August 2018 and the coordination between the U.S. Army Corps of Engineers, the U.S. Embassy in Türkiye, U.S. Air Force and Turkish Air Force represents the routine of cooperation that occurs at NATO's Southern Flank.

Avant Acoustics worked with Turkish engineers from the firm **Aytekın Serol Engineering, Construction and Trade Services Ltd** on this project to provide:

- Consulting on the noise reduction (STC ratings) for walls in conference rooms due to the location near the flight line of the airport.
- External Noise Reduction Review / Improvement recommendations by measurement of the noise reduction between the interior spaces and exterior spaces.
- Calculation of ambient noise levels within Fitness Center, offices, and surrounding room to make noise reductions and improvements.
- Intelligibility review of Speech Transmission Index (STI) and improvement recommendations for the Mass Notification System both internal and external.
- A report documenting findings and indicating conditions requiring further evaluation or investigation.

Emily Jaumard, acoustical consultant and designer on this project, said "I liked how we used EASE computer modeling for almost every space in the fire station, to predict the Speech Transmission Index (STI) of the paging system, to ensure that it would meet life safety requirements. At the end of the project, testing confirmed what was predicted by our computer modeling."



Fire Station

Project Location:
Incirlik Air Base, Turkey

Facilities:
Military Installation

Date:
2024

Designers:
Ed Charland
Emily Jaumard