

Case Study:

IAC Acoustics Sound Barrier



Los Angeles MTA
Los Angeles, California



IAC Acoustics Helps Quiet Communities for the Los Angeles Metropolitan Transportation Authority

The Los Angeles MTA Metro Green-Line light rail transportation system runs south near LAX Airport. The noise generated from the rail cars was affecting the residents of Hawthorn and Segundo California. Woodward Clyde Engineering selected IAC Acoustics Noishield® FS/S sound barrier panels as the noise control product of choice for the elevated structures in these two communities. Due to the acoustic performance provided by IAC Acoustics Noishield® sound barrier panels, light weight construction and ease of installation, it was an easy choice for this project.

IAC Acoustics also supplied Noishield® SFS Septum/barrier panels to be installed between Metro Green-line tracks in one area to provide absorptive treatment for both sides of the barrier system in order to protect an office building immediately adjacent to the track structure.

The IAC Acoustics Noishield® FS/S sound barrier system was approximately ¾ of a mile long by 20' high. It was installed

from a high rail truck with a small hoist with minimal interruption or down time for the transportation authority.

Manufacturing

The panels endure a five step cleaning process and are factory finished with tough, thermosetting polyester powder coating which is not damaged by the harsh cleaning chemicals used to remove spray paint graffiti. A wide variety of standard colors allow complementary decorative schemes and attractive designs are available. The low weight panels are two foot tall and stacked to achieve desired height and configuration. The rugged panels are easy to install and available in 24" and 18" heights and up to 16' long.

Acoustic Performance

IAC Acoustics Noishield® FS/S sound barrier systems optimize sound transmission loss and sound transmission properties in a durable aesthetically pleasing wall system. The 5" thick panel is self-draining and the absorptive side is rated NRC 1.05 with an STC 33 rating.