Case Study:

IAC Acoustics Sound Barrier

Pacific Gas & Electric
San Francisco, California

IAC Acoustics Scores with Noishield® FS/S Sound Barrier System at PG&E

IAC Acoustics supplied and installed a Noishield® FS/S sound barrier for PG&E in San Francisco, California. IAC Acoustics provided complete turn-key services including the design, engineering, foundations, structural support steel, panels, and installation.

The IAC Acoustics Noishield® FS/S barrier systems optimize sound transmission loss and sound absorbing properties in a durable and attractive wall system in harmony with the community. According to PG&E engineer John Dang (Ocean Avenue end user); "I think the green finish looks great! It seems to work so far; and no complaints from the neighbors...". The 16' high barrier is designed to protect the community from unwanted transformer noise.

PG&E presented the IAC Acoustics Architectural Team with an additional challenge; to control the run-off rain water from escaping into adjacent property prior to being filtered into the on-site water treatment area.

IAC Acoustics designed the foundation with an integrated curb to be both structurally sound and environmentally compliant.

Manufacturing and Installation

IAC Acoustics barrier panels are manufactured from 14 gauge solid skin and 10 gauge perforated skin. The panels are roll-formed and cold formed button punched to form a 5" thick acoustical panel. The panels are factory finished using a polyester powder coating for exterior applications and are available in over 100 colors with smooth or textured finishes to satisfy a variety of applications. The Noishield® sound barrier panels can be installed with horizontal or vertical reveals to satisfy aesthetic and architectural considerations.

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 in harmony with the community. The 5" thick panel is self-draining and the absorptive side is rated NRC 1.05 with an STC 33 rating.