

Case Study:

IAC Acoustics Sound Barrier

BMW – North America
Woodcliff Lake, New Jersey



IAC Acoustics Helps Keep Peace and Quiet at BMW–North America Research and Engineering Center

When BMW announced the expansion of their North American Headquarters, renowned Architects HOK were tasked with creating a home for the Research and Engineering Center and Technical Services Group. The project included state-of-the-art technology with a careful eye on ensuring the facility and its many lovely homesteads surrounding it would be environmentally and aesthetically compatible in rural Woodcliff Lake, NJ.

HOK quickly recognized the exceptional sound absorption and sound transmission loss capabilities of the IAC Acoustics Noishield® barrier product. IAC Acoustics was contracted to design, manufacture and install 3 custom Noishield® FS/S rooftop barrier acoustic walls.

Construction Features

Construction details that included a non-welded assembly with a full five inch thick layer of sound absorption material, a powder coat finish, and horizontal reveals providing full length panel drainage on 24" vertical centers would ensure the system be maintenance free for well over 20 years.

The IAC Acoustics system is designed to withstand wind loads specified in the International Building Code with a post spacing of 16' – which also matched the vertical lines of the buildings facades. IAC Acoustics was challenged to fully conceal the flanges of the structural support system – to create the visual of a continuous post free wall nearly 300' long that closely aligned with all other vertical elements of the Building facade.

BMW is now conducting full operations in a state-of-the-art research facility with all of the attendant noise producing machinery having been effectively attenuated by IAC Acoustics Noishield® sound barriers to community standards.