



BMW-NORTH AMERICA RESEARCH AND ENGINEERING CENTER WOODCLIFF LAKE, NEW JERSEY

When BMW announced the expansion of their North American Headquarters renowned Architects HOK were tasked with creating a home for the North American Research and Engineering Center and Technical Services Group that would include state-of-the-art technology with a careful eye on ensuring the facility would be environmentally and aesthetically compatible with bucolic Woodcliff Lake, NJ. IAC America was contracted to design, manufacture and install three custom Noishield® F/S rooftop barrier acoustic walls.

A key criterion was acoustical compatibility with the community – rural in nature yet surrounded by many lovely homesteads. The design team also recognized that a state-of-the-art Research and Development facility would require support from many large and noisy pieces of equipment - almost all to be located on the building roofs.

HOK quickly recognized the exceptional sound absorption and sound transmission loss capabilities of the IAC Noishield® Barrier product. Construction details that included a non-welded assembly with a full 5" 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.

Another feature – the IAC system was already 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. However – HOK wanted to take the project to a higher aesthetic level and challenged IAC to improve the existing system – specifically - find a way to fully conceal the flanges of the structural support system – in essence to create the visual of a continuous post free wall nearly 300 ft long that closely aligned with all other vertical elements of the Building façade.

Designs were vetted – prototypes built – and the IAC team concluded that the Noishield® Barrier product line could indeed satisfy all of HOK's objectives. As a result of this up front effort IAC was well prepared to offer the project General Contractor a best value proposal for the supply and installation of three custom Noishield® FS/S Barriers on the rooftop of the R&D and Technical Services Buildings.

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 Noishield® Barriers to community standards.

IAC...Making the World a Quieter Place!

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HERE'S HOW IAC NOISHIELD® SOUND BARRIERS
...help keep peace and quiet at BMW North America