



الاتحاد للقطارات
ETIHAD RAIL

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ETIHAD RAIL

Acoustic Integration in a Landmark
Infrastructure Project



ETIHAD RAIL

Acoustic Integration in a Landmark Infrastructure Project

The Etihad Rail project stands as one of the UAE’s most ambitious infrastructure developments—designed to connect people and goods across the country while setting new benchmarks for architectural and engineering excellence. Within this national vision, the architectural design of the station interiors had to strike a delicate balance between functionality, passenger comfort, and iconic aesthetics.

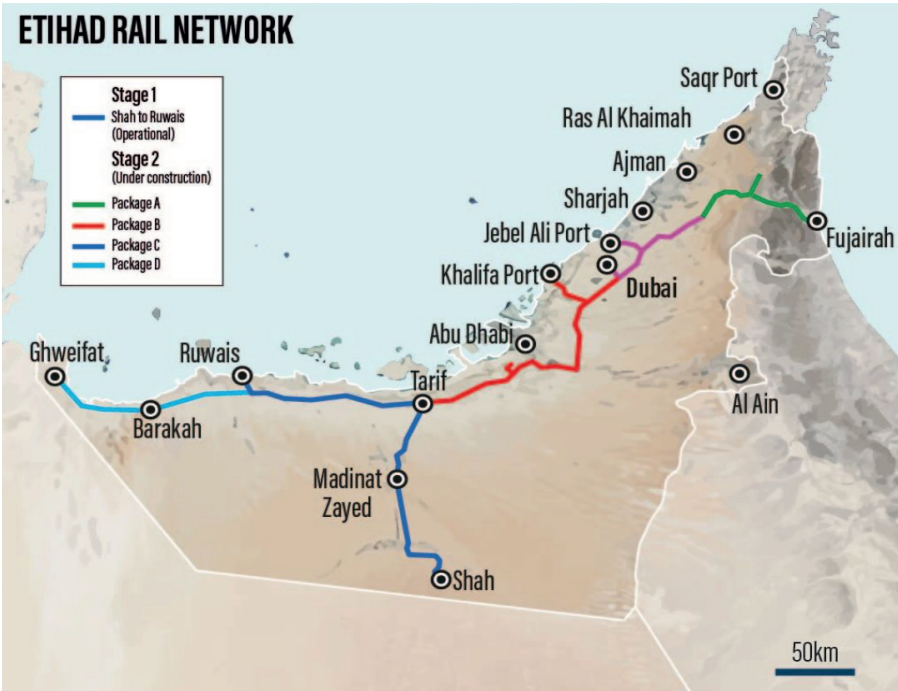
Architectural Concept and Design Vision

The station design features expansive open spaces, flowing geometries, and uninterrupted sightlines—

elements that promote intuitive passenger flow and visual clarity. The ceiling architecture is particularly noteworthy: a series of sweeping, wave-like forms and integrated lighting channels guide movement while expressing a dynamic, modern design language. These large-volume spaces, while visually striking, presented a significant **acoustic challenge** due to their reflective surfaces and high ceilings.

Acoustic Strategy and Execution

From the early stages of the design process, the project team anticipated the impact of reverberation and noise build-up in these high-traffic zones. Bowiq was engaged to develop a tailored acoustic solution that would preserve the integrity of the design while delivering measurable acoustic performance.



TWO HIGH-PERFORMANCE SYSTEMS were specified and implemented:

BOSPRAY

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BOSPRAY Acoustic Cellulose Spray System

In selected ceiling areas—particularly those hidden behind the architecturally integrated **metal grille panels**—BoSpray was applied directly to the substrate. This system delivers excellent **sound absorption (up to NRC 0.95)** while allowing for full airflow and acoustic transparency through the overlaid perforated elements. The result is an acoustically optimized space that maintains the desired industrial and technical aesthetic.



BOCOUSTIC

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BOCOUSTIC Seamless Acoustic Plaster System

In more visible public areas, the BoCooustic system was applied over a mineral wool base to create a visually clean, smooth ceiling finish with high acoustic performance. With Class A sound absorption (EN ISO 11654) and a sleek surface, BoCooustic helped retain the refined elegance of the space without compromise.



Project Development and Progress

The execution of the acoustic treatments was closely coordinated with other ceiling systems including MEP installations, lighting, and signage mounting. Given the scale and technical complexity of the Etihad Rail stations, precise project phasing and system adaptability were essential.

Despite the complexity of the ceiling geometries and the performance requirements, both acoustic systems were delivered on schedule and seamlessly integrated with the architectural finishes. This collaborative effort between designers, consultants, and installers ensured that acoustic comfort was achieved **without visual clutter or design trade-offs



Bowiq is proud to have been part of this flagship national project, helping shape public spaces that not only look exceptional but sound exceptional too.

BOWIQ • Your needs, our responsibility. •