



# Soundproof ACOUSTIC BLANKETS

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## **Microsoft Implements Construction Noise Barrier Walls for New Data Centers**

**Microsoft Corporation** – A global leader in cloud computing, artificial intelligence, and technology infrastructure, with multiple large-scale construction projects worldwide.

### **Challenges**

As part of its rapid infrastructure expansion, Microsoft initiated the construction of new data centers to support cloud services and AI-driven operations. However, these projects involved high-intensity activities such as:

- Heavy-duty drilling, excavation, and steel framework installations, all of which produced extremely high decibel noise.
- Noise complaints from nearby office buildings and commercial areas, putting the project at risk of delays due to local regulations and community concerns.
- Construction workers struggling with communication and hearing protection, as excessive jobsite noise made it difficult to relay instructions and maintain a safe work environment.
- Potential non-compliance with OSHA noise regulations, increasing the risk of legal consequences and workplace safety violations.

## Solution

Microsoft partnered with All Noise Control to implement a comprehensive construction noise control strategy, integrating multiple high-performance soundproofing solutions to meet both regulatory and operational requirements.

Key solutions included:

- Construction noise barrier walls strategically installed around the site to block loud construction sounds from escaping into neighboring areas.
- Temporary noise control blankets, designed for easy repositioning as construction progressed, ensuring that different phases of the project remained adequately soundproofed.
- Modular noise barrier blankets, allowing for flexibility in installation across different construction zones, adapting to changing site conditions.
- Portable soundproof walls, placed around high-noise equipment such as heavy machinery, generators, and steel-cutting stations, to contain sound effectively.
- Chain link fence sound barriers, installed along the perimeter of the construction site to act as an additional layer of noise reduction.
- Custom-fit acoustic blankets, tailored to wrap around loud construction machinery, reducing sound transmission without interfering with operational efficiency.
- Sound blankets with Velcro edges, allowing for quick installation and removal, enabling seamless adjustments throughout different stages of construction.
- Fire-rated sound blankets, ensuring Class A fire-resistant soundproofing compliance, providing both noise reduction and enhanced fire safety.



# Results

By implementing high-performance acoustic solutions, Microsoft achieved significant improvements in construction noise management, worker safety, and regulatory compliance:

- 60% reduction in construction noise, dramatically lowering complaints from nearby businesses, preventing potential project shutdowns.
- Improved worker communication, allowing employees to coordinate tasks more effectively, leading to increased efficiency and fewer safety risks.
- Full compliance with OSHA noise regulation solutions, avoiding potential legal issues and ensuring a safe working environment.
- Enhanced workplace safety, with industrial soundproofing blankets helping to mitigate noise-induced hearing risks among workers.
- Minimal disruption to surrounding areas, ensuring that Microsoft could maintain a positive relationship with local communities and businesses.
- Preserved construction timelines, preventing noise-related delays and allowing Microsoft to stay on track with its rapid infrastructure expansion goals.