



CLEANROOM WALL PANELS

Enhancing Cleanroom Performance Through Acoustic Control at Medtronic

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Medical device manufacturers such as Medtronic operate highly controlled cleanroom environments where surgical tools, implantable devices, and precision medical components are assembled. These sterile environments rely on automated equipment, inspection systems, and specialized ventilation infrastructure that operate continuously to maintain strict manufacturing standards.

The mechanical systems and production equipment used in medical device cleanrooms can generate continuous background noise. Because these facilities use hard, sanitary surfaces to maintain contamination control, sound reflections can increase reverberation throughout the workspace. Excessive reverberation can make communication more difficult for technicians performing precision assembly tasks.

Installing VibraCore® Acoustic Cleanroom Wall Panel Systems helps improve acoustic conditions inside sterile manufacturing environments. These cleanroom acoustic panels feature a 6–7 PCF fiberglass core encapsulated with a PVF cleanroom surface, allowing them to absorb sound energy while maintaining sanitary conditions.

With NRC 0.85 sound absorption performance, VibraCore® panels reduce reverberation caused by mechanical systems and production equipment. This helps improve communication clarity and supports a more efficient working environment within medical device cleanrooms.