BATT 50 Sound Insulation by RT acoustic

Creating a Quieter Commercial Space

BATT insulation is not just for thermal control; it's a powerful tool for creating a quieter, more productive, and private environment in commercial buildings. Its fibrous composition is excellent at absorbing and disrupting sound waves, providing a significant benefit beyond its thermal properties.

CONTACT US

RT acoustic brings a new profound level of peace and wellness to users, and ultimately, enhances their quality of life.

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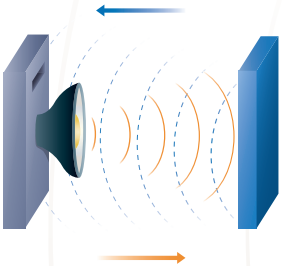
Key Acoustic Features

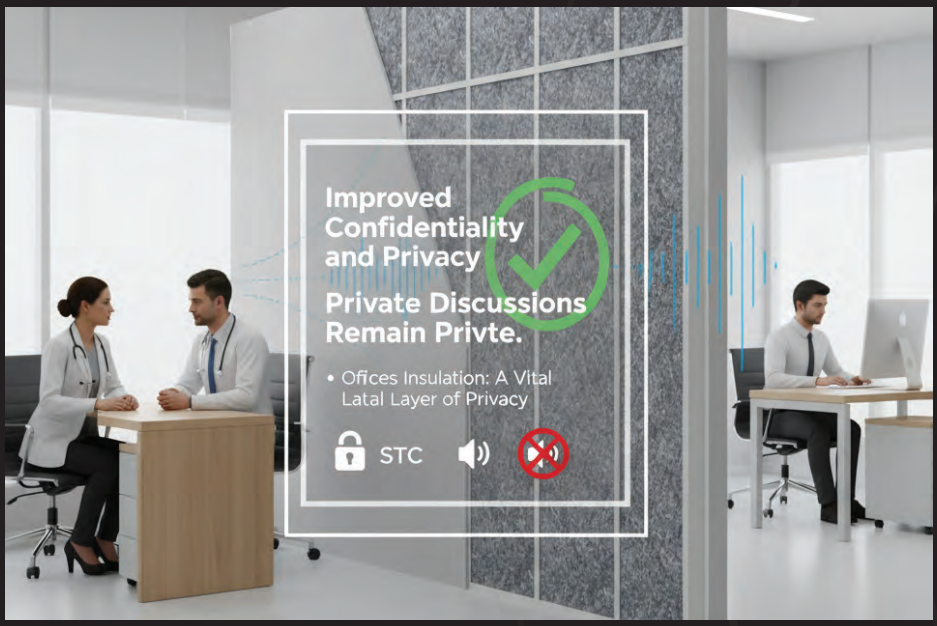


• **Noise Reduction Coefficient (NRC):** This is a key rating for a material's ability to absorb sound. Batt insulation, particularly denser mineral wool and some fiberglass options, has a high NRC, meaning it effectively soaks up sound energy rather than letting it bounce around or pass through. An NRC of 1.0 indicates a material absorbs all sound, and while that's not physically achievable, high-density batts can have ratings of 0.80 or higher, indicating superior performance.

• **Sound Transmission Class (STC):** While NRC measures absorption within a room, STC measures the resistance of a wall assembly to airborne sound passing through it. When batt insulation is installed in walls, it increases the STC rating, providing a crucial barrier against noise. This helps prevent sound from traveling between offices, conference rooms, or from outside sources like traffic and HVAC systems.

• **Dampening and Absorption:** Batt insulation works on two main principles: sound absorption and vibration damping. The dense, porous structure traps sound waves, converting their energy into a small amount of heat through friction. This process reduces echo and reverberation inside a room, improving speech clarity. At the same time, the insulation acts as a buffer to dampen vibrations that can travel through a building's structure, like footsteps or machinery noise.

Benefits for Your Business



• **Enhanced Productivity and Focus:** A noisy work environment can significantly decrease employee concentration and productivity. Batt insulation creates a quieter space, allowing your team to focus on their work and conduct meetings without distraction.

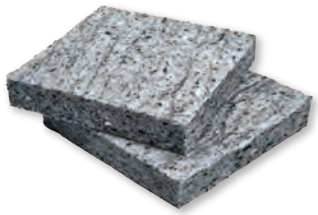
• **Improved Confidentiality and Privacy:** In offices and medical facilities where sensitive conversations are common, batt insulation installed in interior walls provides a vital layer of privacy, ensuring that private discussions remain private.

• **A More Welcoming Environment:** For retail, hospitality, and healthcare settings, a quiet atmosphere is key to a positive customer experience. Reduced noise levels make the space feel more professional and comfortable for clients, patients, and guests.

• **Cost-Effective Acoustic Solution:** Installing batt insulation is a relatively low-cost and highly effective way to improve a building's acoustics during new construction or a renovation. It's an efficient solution that offers both sound and thermal benefits in a single product.

Specification

RT BATT50 (Unfaced)



NRC : 0.80 with no air gap, ASTM C-423
STC : 2.95 , ISO 10534 - 2 : 1998

Material	:	100% Polyester with 80% recycle content
Thickness	:	50 mm STD. , Min 46 mm. , Max 54 mm.
Panel Size	:	600 x 1200 mm.
Weight (g/m²)	:	1700 STD. , Min 1530. , Max 1870.
	:	1.22 kg / Sheet

Flammability

ASTM E84-18b	:	Class A

Emission Data

TVOC Emission Rate	:	0.021 mg/m³

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Material	:	100% Polyester with 80% recycle content
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Panel Size	:	600 x 1200 mm.
Weight (g/m²)	:	1700 STD. , Min 1530. , Max 1870.
	:	1.22 kg / Sheet
Finishing	:	2 mm. Felt faced Colours as in Duet series

Flammability

ASTM E84-18b	:	Class A

Emission Data

TVOC Emission Rate	:	0.021 mg/m³

Installation

Sound insulation batts work by absorbing and dampening sound waves within the cavity of a building assembly (like a wall or ceiling). Sound insulation batts are used in both residential and commercial projects where controlling noise between spaces is important:

Interior Partition Walls: Between bedrooms, bathrooms, laundry rooms, or home offices to increase privacy.

Exterior Walls: To help reduce the transmission of outside noise (e.g., traffic) into the building.