

Ask the **Expert**

What do I need to know about building sound insulation?

Sound insulation is essential for comfort, energy-efficiency, and even regulatory requirements. When choosing a sound insulation product, it's important to first understand noise from its origin-indoor and outdoor sources-and potential problems. Sound absorption, impact noise reduction, and vibration isolation are all critical factors.

Noise is transmitted both through the structure and the vibration of the structure. That means dense and closed-cell materials are preferred for noise insulation while softer, lighter materials are important for noise absorption. Vibration isolation materials covering a range of frequencies are also important for decoupling buildings, machines, and

fixtures from their This is where cork comes in. Cork is a unique natural foam with a set of attributes that vibration cycle, makes it a clever choice for insulation. It's light, composed of 50% air, has a closed-cell structure, and is highly chemically underlayment and mechanically resistant. It's carbon negative with a marginal end-of-life impact. It doesn't release any VOCs, making it a critical factor for indoor air quality, too. I would say it's face leveling. arguably the most important natural material for acoustic insulation. installed under Even more fascinating is that cork offers tremendous enabling noise opportunities to be combined with other materials. The Acousti-CORK product line targets impact noise reduction and vibration isolation. Our vibration interrupt the t control materials ransmission of are engineered

Eduardo Soares Innovation Director Amorim Cork Composites

building sound insulation and why cork may be the compounds of cork and natural or recycled rubber. They dissipate vibration energy into lowgrade heat in each resulting in low amplification at resonance in a wide range of frequencies and load-bearing capacities. Our materials are made of cork, polyurethanes, EVAs, and recycled rubber. They are designed to reduce sound impact at the source and offer thermal comfort and sur-AcoustiCORK also offers insulation mats to be floating screeds on new construction, reduction by more than 55 decibels. Wall bearing material strips decouple the connections of masonry with the building's structure to efficiently footstep noise.

