



STC Acoustic Sleeper™: Frequently-Asked Questions (FAQ's)

Q: What is the Acoustic Sleeper made of?

A: Neoprene, a dense and resilient rubber selected for its ability to isolate vibrations. Color is black, like most rubber products.

Q: Why does the Acoustic Sleeper have that particular profile (patent published)?

A: A critical goal of isolating impact noise is to minimize contact between the finish floor surface and the supporting structure. More than 99.8% of the floor area is isolated from the structure with Acoustic Sleeper installations; continuous mat systems don't do that.

Q: What configurations are available?

A: Acoustic Sleepers are 1-½" wide, ¼" high, and are available as pads (1-½" square) and strips (8' long). Strips can be easily cut to any length.

Q: Can the Acoustic Sleeper be used in combustible Construction Types III, IV and V?

A: Yes. The Acoustic Sleeper is part of UL-listed 1-hour fire-rated floor/ceiling assemblies:

- Wood Joists: L502, L506, L514
- I-Joists: L589
- Wood Truss: L528, L563, L574
- Metal Joists: L524
- Light Gauge Metal Truss: L560, L565

Q: Can the Acoustic Sleeper be used in non-combustible Construction Types I and II?

A: Yes. Use with a noncombustible panel (ex: cement-bonded particleboard) or use with combustible panels and fireblock the cavity to comply with IBC Section 718.2.7 and 805.1. Fireblock materials can be ¼" thick cement board strips or any other *approved* alternative per IBC 104.11 used as fill, void or cavity material, such as fire sealants and foams.

Q: How well does the Acoustic Sleeper perform for Impact Insulation Classification (IIC)?

A: Independent tests per ASTM E 2179 of sleeper pads at 24-inches under plywood demonstrate ΔIIC-18, higher than gypsum cement and acoustical pad systems.

Q: How does ΔIIC work to determine total system IIC values?

A: Conceptually the ΔIIC values for the components of the floor/ceiling system should add together to provide the IIC for the system. However, sound transmission values at various frequencies need to be considered for a reliable estimate.

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