

Acoustic Roof Assemblies

Engineered for sound-sensitive environments

Acoustic roof design is essential for keeping unwanted noise out of the building's interior. For buildings near high-decibel airports and highways, a highly-rated STC (Sound Transmission Class) and OITC (Outdoor-Indoor Transmission Class) roof assembly can serve as a valuable sound shield.

In schools, healthcare facilities, and offices, acoustic performance ensures the roof doesn't become a structural loudspeaker. By prioritizing sound attenuation, you protect the comfort, focus, and well-being of the occupants inside.

- **STC measures sound transmission loss.** A higher STC rating indicates better sound insulation, with less noise passing through.
- **OITC measures sound transmission loss over a wider frequency range, and includes lower frequencies than STC measures.** This can include noise from traffic, construction, trains, and aviation. A higher OITC rating indicates better performance in blocking noise.

The Siplast acoustic advantage

Siplast acoustic roof systems deliver engineered silence and structural strength, backed by rigorous third-party testing* across various roof deck types. Our assemblies are proven to perform, achieving STC ratings up to 62 and OITC ratings up to 47.

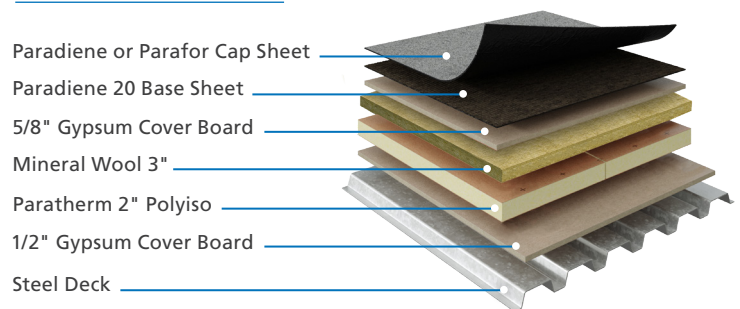
From polyiso and mineral wool to gypsum and LWIC, Siplast offers a broad portfolio of acoustic assemblies integrated with our high-performance SBS-modified bitumen and single-ply membranes.

Make sound decisions about your acoustic roof design. Partner with Siplast for end-to-end support, ensuring lasting quiet and confidence with every project.

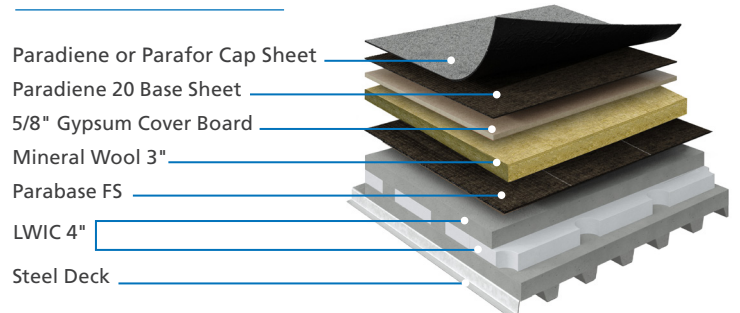
*Third-party tested according to the ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.

The anatomy of silence: Siplast acoustic assemblies

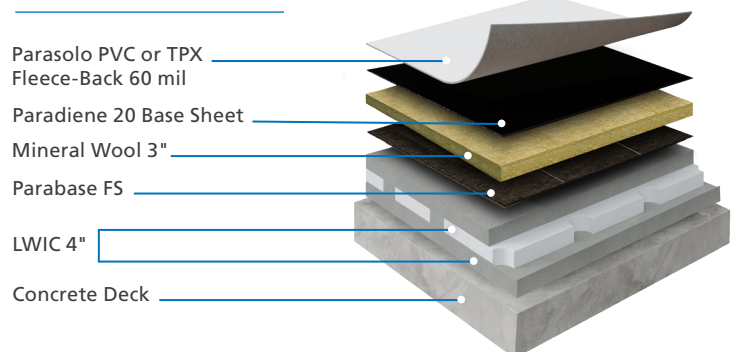
Acoustic Performance STC: 45–OITC: 35



Acoustic Performance STC: 56–OITC: 44



Acoustic Performance STC: 62–OITC: 45



Contact a Siplast representative for support with your next acoustic project.