

Understanding Acoustics for Windows & Doors

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1. What units are used to measure sound level and frequency?
2. How does the concept of loudness differ from the physical intensity of sound?
3. Which regulations, standards and guidelines inform the required acoustic performance of building envelopes in Australia?
4. How is the required R_w rating for a window or door determined, and why are correction factors (C and C_{tr}) applied?
5. What two physical characteristics of glass influence its ability to reduce sound transmission?
6. What two factors should be prioritised when selecting windows or doors for effective acoustic control?

By the end of this session you should understand:

- Explain the fundamental properties of sound and how it behaves in built environments.
- Describe the standard acoustic testing procedures for windows and doors, including relevant ratings and compliance benchmarks.
- Evaluate the acoustic performance of various door and window systems and glazing types.
- Identify project-specific acoustic requirements and select appropriate window and door solutions to meet performance goals.

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