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CEILING ACOUSTICS IN EDUCATIONAL SETTINGS

1. What is the Noise Reduction Coefficient (NRC)?

A noise reduction coefficient is a figure, ranging from 0.0 to 1.0, that measures the average sound absorption capacity of a material. Materials with an NRC of 0.0 absorb no sound, while those with an NRC of 1.0 absorb all sound..

2. For students, what are the potential negative consequences of poor acoustics in schools?

The potential consequences of poor acoustics include poor educational outcomes, increased behavioural problems, lack of communication between students and teachers, increased stress, and increased fatigue.

3. What are the negative educational effects of voice injury amongst teachers?

Voice issues can lead to reduced verbal interaction between teachers and students, reduced job performance, poor retention of teachers, and difficulty in managing classroom behaviour

4. What are the five acoustic parameters that need to be addressed when designing educational facilities?

- Reverberation
- Speech Intelligibility
- Sound transmission
- Background noise levels
- Signal to noise ratio
- Floor Impact

5. What acoustic attribute should be encouraged in design for open plan collaborative or multi-use spaces?

Speech reinforcement.