

Enhanced acoustical performance

EQc9 | Possible 2 points

Intent

Provide classrooms that facilitate better teacher-to-student and student-to-student communications.

Requirements

Design classrooms and other core learning spaces to meet the Reverberation Time (RT) requirements of ANSI Standard S12.60-2002, Acoustical Performance Criteria, Design Requirements and Guidelines for Schools. Also design classrooms and other core learning spaces to meet the Sound Transmission Class (STC) requirements, excepting windows, which must meet an STC rating of at least 35.

AND

Option 1

Using the methodology described in Standard S12.60-2002, achieve a maximum unoccupied background noise level in classrooms and other primary learning spaces of:

40 dBA (1 Point)

35 dBA (2 Points)

Option 2

Design classrooms and other core learning spaces using the methodology listed in the 2003 HVAC Applications ASHRAE Handbook, Chapter 47 on Sound and Vibration Control, and achieve an RC (N)

Mark II level of:

32 (1 Point)

27 (2 Points)