

1. **Design Criteria:**

- a. The primary concerns with gypsum wallboard partitions are:
 - i. Resistance to abuse
 - ii. Moisture and mold resistance
 - iii. Sound attenuation rating
 - iv. Appearance – design professional shall review the specified levels of finish with the UVM project manager for approval.
 - v. Fire rating where it applies
- b. Sound attenuation: The Design Professional shall assess and determine the appropriate sound attenuation levels to be provided by specific partitions.
 - i. For educational spaces, the proposed partition and ceiling types shall conform to the recommendations of the ANSI/ASA S12.60 Part 1 for both STC and IIC ratings.
 - ii. The Design Professional shall provide, as part of the Design Development submission, a graphic description of the proposed STC and other relevant acoustical ratings of each partition for review by UVM.
 - iii. See attachment table 4 for recommended ratings of partitions between educational spaces and other rooms. (ANSI/ASA S12.60 Part 1)
 - iv. Follow recommendations for joint and penetration sealing for sound-rated partitions in ANSI/ASA S12.60 Part 1.
- c. Gypsum board products, joint materials, and other accessories are to be asbestos free.

2. **Reference Standards:**

- a. ANSI/ASA S12.60 Part 1: “Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools, Part 1: Permanent Schools “
 - i. Note that there may be other ANSI standards to conform to depending on the occupancy of the facility.

3. **Submittals to be reviewed by University:**

- a. All manufacturer’s product data
- b. Warranty information

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4. **Products, Materials & Equipment:**

- a. Minimum single-layer wall board thickness: 5/8"
 - i. Thinner board may be used when part of a multi-layer assembly for fire or sound attenuation properties.
- b. Use abuse resistant wallboard in areas subject to higher amounts of damage. Review potential areas with UVM project manager to determine where this type of wallboard is necessary.
- c. Use moisture resistant wallboard in areas where excessive water is expected to deteriorate wallboard finishes. Review potential areas with UVM project manager to determine where this type of wallboard is necessary.
 - i. Moisture resistant wallboard shall inhibit all mold growth as measured by ASTM D3273 (Level 10).
 - ii. Use cement backer board where wall finish is tile.

5. **Installation, Fabrication, and Construction:**

- a. Where floors are expected to be flooded with water as part of normal use, cleaning or emergencies, studs and gypsum finishes shall be raised above floor level on a waterproof curb.
 - i. Curb construction shall be covered with waterproof finishes such as tile or sheet flooring approved for use in wet locations by the manufacturer.
 - ii. Height of curb shall be designed to keep wallboard dry when water is present on the floor/curb.
- b. Provide solid blocking in walls for all wall mounted accessories, equipment, etc.

6. **Warranties:**

- a. Manufacturer's standard warranty for wallboard and accessories
- b. Installer's standard 1 year warranty for installation of wallboard and accessories.

7. **Attachments:**

- a. ANSI/ASA S12.60 Part 1: Table 4 - STC ratings for separation of educational spaces from adjacent rooms

Table 4 — Minimum STC ratings required for single or composite wall and floor-ceiling assemblies that separate a core learning space from an adjacent space

Adjacent space			
Other enclosed or open-plan core learning space, therapy room, health care room and space requiring a high degree of acoustical privacy ^{a), b)}	Common-use and public-use toilet room and bathing room ^{c)}	Corridor, staircase, office, or conference room ^{c), d)}	Music room, music performance space, auditorium, mechanical equipment room, ^{e)} cafeteria, gymnasium, or indoor swimming pool.
50	53	45	60
<p>^{a)} These requirements do not apply to toilets opening only into the core learning space and used only by occupants of the core learning space.</p> <p>^{b)} A 20 cm (8") concrete masonry unit wall having a surface weight density of at least 180 kg/m² painted and sealed on both sides, acoustically sealed at the entire perimeter and extending from the floor slab to the structural deck above, is an acceptable alternate assembly that conforms to the intent of 5.4.2.1.</p> <p>^{c)} For corridor, office, or conference room walls containing doors, the basic wall, exclusive of the door, shall have an STC rating as shown in the appropriate column in this table. The entrance door shall conform to the requirements of 5.4.2.4.</p> <p>^{d)} When acoustical privacy is required, the minimum composite STC rating, including the effects of doors, of the partitions around an office or conference room, shall be increased to 50.</p> <p>^{e)} The isolation between core learning spaces and mechanical equipment rooms shall have a STC rating of 60 or greater unless it is shown that the sound level in the mechanical equipment room combined with a lower STC rating can achieve the required sound level in the core learning space. In no case shall the design STC between such spaces be less than 45.</p>			