



## Interior Partitions

### Examples - Interior Partitions

- Concrete masonry walls (CMU)
- Glazed tile and ceramic tile
- Metal or wood studs with gypsum wallboard
- Veneer plaster over gypsum wallboard
- Operable partitions
- Folding partitions
- Demountable partitions
- ~~Wood framing~~

### Performance Standards - Interior Partitions

1. Easy to clean materials
2. Resistant to moisture and inhibits the growth of biological contaminants
3. Impact resistant materials in high traffic areas
4. Durable, long life materials
5. Dimensional planning to reduce waste (i.e. 4 ft. by 8 ft. wallboard)
6. Use materials that meet industry consensus standards for VOC emissions.

### Guidelines - Interior Partitions

- Consider the design of a product for disassembly and its parts to be reused, remanufactured, or recycled
- ~~Good~~ Consider acoustical qualities
- Consider recycled/recyclable
- Local (within 500 miles) materials and products where possible
- Consider renewable materials

## Concrete Masonry Walls Structural Glazed Tile Walls Ceramic Tile

### Performance Standards

- Impact resistant
- Easily cleanable & maintainable
- Good acoustic qualities
- Daylight enhancement qualities

### Construction Standards - Concrete Masonry Walls, Structural Glazed Tile Walls, Ceramic Tile

1. CMU walls: ASTM C190, 1900 psi compressive strength, normal weight aggregate or FM 1500 psi.
2. Tooled or struck mortar joints for cleanability. Use Type "S" mortar for loadbearing walls and Type "N" for non-loadbearing walls.
3. Glazed structural clay tile: ASTM C 126, Type I (single-faced units) and Type II (double-faced units)
4. Ceramic tile: for materials ANSI A 137.1 "Specifications for Ceramic Tile"; for installation ANSI 108 series and TCA handbook
5. Glazed wall tile: 5/16 inch thick, flat tile with cushion edges
6. Grout tile using latex Portland cement grout. Exception: use chemical resistant epoxy grout in kitchens
7. Control joints required for CMU partition walls per design.

### Performance Guidelines and Benefits - Concrete Masonry Walls, Structural Glazed Tile Walls, Ceramic Tile

- Impact resistant
- Easily cleanable & maintainable
- Good acoustic qualities
- Daylight enhancement qualities

## Metal or Wood Studs with Gypsum Wallboard Veneer Plaster over Gypsum Wallboard

### Construction Standards - Metal or Wood Studs with Gypsum Wallboard, Veneer Plaster over Gypsum Wallboard

- ~~1. Do not use in exterior walls where threat of moisture and mold might be present~~
1. Sound transmission class: Minimum STC of 41 in academic areas
2. Steel framing: comply with ASTM C754 and G40 hot-dip galvanized zinc coating
3. Gypsum wallboard: ASTM C36, Type X 5/8 inch thick
4. Type X wallboard required at rated partitions
5. Moisture resistant wallboard to be used in high moisture areas
6. Metal studs: ASTM C645, 20 gauge sheet base metal
7. Provide control joints in partitions 30 feet maximum
8. Veneer plaster: ASTM C58T consisting of separate base coat and finish coat
9. Wood stud grade marked as required by the applicable building code
10. Abrasive and impact resistant materials in high traffic areas

- Performance Guidelines and Benefits - Metal or Wood Studs with Gypsum Wallboard, Veneer Plaster over Gypsum Wallboard
- ~~• "Abrasive resistant" and "high impact" in high traffic areas~~
  - Economical
  - Relatively easy to move or remove
  - Accommodates periodic finish color changes
  - Good sound barrier when used with acoustical insulation

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## Operable Partitions, Folding Partitions, Demountable Partitions

### Performance Standards - Operable Partitions, Folding Partitions, Demountable Partitions

1. Easily moved from opened to closed (stored) position by manual or electrical operating mechanism.
2. Sound transmission ~~(STC rating)~~ class (STC) as provided below in Construction Standards, or as required to meet the sound isolation requirements for the functional use of the rooms or spaces to be divided, whichever is greater.
3. Options for tack and marker-board surfaces.
4. Overhead structural support with minimal deflection as required for functional operation.
5. Demountable partitions convenient to disassemble and relocate.

### Construction Standards - Operable Partitions, Folding Partitions, Demountable Partitions

- ~~1. Manually or electrically operated partitions~~
1. Operable partitions: panels ½ inch gypsum board laminated with 3/16 inch natural cork (STC 47) or steel face sheet (STC 50); Panel finish-vinyl fabric, carpet, tack boards or marker boards; pedestrian pass doors as required.
2. Accordion folding partitions: steel or aluminum suspension tracks; manually operated; interior 22 gauge steel panels for sound isolation; vinyl coated fabric finish.
3. Demountable partitions; face panels of gypsum board painted or covered with vinyl; face panels of steel painted or covered with vinyl or plastic laminate; doors and windows available as required.
4. Non-combustible products that meet rated fire or smoke separation building code requirements.