

SECTION 09 21 16

GYPSUM BOARD ASSEMBLIES

PART 1 GENERAL

1.01 QUALITY ASSURANCE

- A. Provide assembly ratings and numbers as designated by UL, Warnock Hersey or other testing agencies accepted
By the Denver and State of Colorado Building Departments
- B. Provide all Gypsum board from a single source.
- C. Impact resistance - no failure after 100 impacts when tested with ASTM E 69 modified.

1.02 SUBMITTALS

- A. Shop Drawings showing layout of control joints.
- B. Installation Instructions and product data.
- C. Samples of each face materials, texture and accessory to be utilized.
- D. Manufacturer's certification that gypsum is free of asbestos.

PART 2 PRODUCTS

2.01 MATERIALS

- A. IAQ Requirement: Ceiling and wall materials shall comply with the requirements of the California Department of Public Health (CDPH) Standard Method v1.1-2010.
- B. Gypsum Board –beveled tapered edge.
 1. 5/8" Type ' X '
 2. 5/8" Impact Resistive type ' X '.
 3. Exterior sheathing shall be water resistant material only.
 4. Tile backer board: Fiber reinforced cement boards, ½" minimum thickness. Comply with fire rating requirements where required.
- C. Trim –including but not limited to:
 5. Expansion joints
 6. Reveals
 7. Corner Beads – **Required to be mechanically attached.**
 8. Acoustical
- D. Joint Treatment
 9. Joint Tape
 10. Joint Compound
 11. Wet area- use fiberglass mesh joint tape and chemically cured joint compound.
 12. Provide casing beads at joints of dissimilar materials and recessed items such as cover plates.
- E. Acoustical sealants
 13. Caulk
 14. Closed cell foam tape
- F. Sound Insulation
 1. Un-faced fiberglass 2" minimum sound batts.

2.02 FINISHES

- A. Trim
 - 1. Painted
 - 2. Zinc Alloy
 - 3. Galvanized
- B. Gypsum Walls
 - 4. Level 4
 - 5. Rolled on Texture – Orange Peel
 - a. walls
 - b. ceiling
- C. Gypsum Ceilings
 - 6. Level 4 - Smooth, skim coat

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install all gypsum board and trim accessories in strict conformance to manufacturer’s installation instructions and meeting finishing standards ASTM C 840 and GA-216 and as specified herein.
- B. Finishing of assemblies
 - 1. General: Apply joint treatment at gypsum board joints (both directions); flanges of corner bead, edge trim, and control joints; penetrations; fastener heads, surface defects; and elsewhere as required to prepare gypsum board surfaces for decoration and levels of finish indicated.
 - 2. Pre-fill open joints, rounded or beveled edges, and damaged areas using setting type joint compound.
 - 3. Apply joint tape over gypsum board joints except those with trim accessories having concealed face flanges not requiring taping to prevent cracks from developing in joint treatment at flange edges.
 - 4. Provide one of the following levels of finish.
- C. Levels of finish (GA-216)
 - 1. Level 1: Plenums and service corridors.
 - 2. Level 2: Cement board backing board scheduled to receive tile.
 - 3. Level 3: Gypsum board scheduled to receive heavy or medium textured coatings and heavy-grade wall coverings.
 - 4. Level 4: Gypsum board scheduled to receive light textured coatings and light-grade wall coverings.
 - Level 5: Required at some building locations
 - a. For level 5 finish, embed tape in joint compound and apply three separate coats of joint compound over joints, angles, fasteners heads, and accessories. Touch up and sand between coats and after last coat as needed to produce a surface free of visual defects and ready for decoration. Use the following joint compound combinations:
 - 1) Embedding and first coat: Ready-mixed, drying type, all purpose or taping compound.
 - 2) Fill (Second coat): Ready-mixed, drying type, all purpose or topping compound.
 - 3) Finish (Third coat): Ready-mixed, drying type, all purpose or topping compound.
- D. Provide impact resistant gypsum board in areas of heavy abuse. Those locations shall include:
 - 1. Corridor walls within four feet of the floor and common areas.
- E. All corner beads shall be screw attached, not just crimped.

- F. Cement board required in areas with exposure to humidity and water.
- G. Hold gypsum a minimum of 1/8", maximum 1/2" above the floor to allow for caulking.
- H. Provide cementitious backer board for shower rooms, toilet rooms, kitchens, and any other areas to receive tile finishes.

END OF SECTION 09 21 16