092116-H: GYPSUM BOARD ASSEMBLIES (09260-H)

GENERAL

1. In general, follow the guidelines below when designing and specifying Gypsum Wallboard Systems and accessories. Unless specifically indicated otherwise, these guidelines are not intended to restrict or replace professional judgment.

2. Comply with all applicable codes

DESIGN REQUIREMENTS

1. Generally follow design practices outlined in manufacturer's literature and standard industry manuals.

2. Design non-load-bearing partitions in accordance with steel stud and drywall manufacturer's published recommendations regarding stud depth and gauge for each application.

3. Incorporate steel or plywood sheet backing into gypsum board partitions where required to support equipment, and as otherwise by the Project Coordinator.

4. Clearly mark fire-rated assemblies on drawings with either Underwriter’s Laboratories, and with required fire rating in hours. Clearly indicated fire and smoke rated partitions on the floor plans.

5. Design assemblies to provide sound control ratings established by the Project program or by the Design Manager.

6. Plastic trim is generally acceptable for interior applications, except specify metal trim at outside corners and other locations subject to impact damage.

7. All fire and/or smoke barriers or walls shall be effectively and permanently identified with signs or stenciling above a decorative ceiling and/or in concealed spaces with letters a minimum of 6 inches high on a contrasting background. Space a minimum of 30 feet on center, within 15 feet of the wall the hourly rating shall be included on both sides of all rated barriers or walls. Suggested wording “(__) Hour Fire (and Smoke Barrier)-Protect all Openings”. When existing walls are no longer required to be rated, the project should paint over the stenciling on both sides of the wall.

8. Some locations are not suitable for gypsum board/metal stud partitions, and CMU should be considered instead.

MATERIAL REQUIREMENTS

1. Gypsum board:
   a. Usually specify gypsum board for partition applications a minimum of 5/8-inch thick; and for suspended ceilings, soffits and fascias a minimum of 1/2-inch thick. Thinner units are acceptable where required for bending, compliance with UL or GA Design requirements, or other design requirements.
   b. Abuse-resistant gypsum board should be used in corridors with cart traffic, storage rooms, janitor's closets, psychiatric areas, gyms and at other areas subject to high traffic.
   c. Install non-combustible plywood behind the gypsum board at walls subject to high abuse, such as headwalls, janitors’ closets and areas with high cart traffic.
   d. The gypsum board should be installed so as to not touch the concrete slab. Space the board off of the floor, and use a fire rated and/or acoustical assembly as needed.
   e. Install cement board behind ceramic tile at shower locations.
   f. Install fiberglass faced, mold resistant ceramic tile backer at other ceramic tile locations.

2. Steel Studs: Galvanized, and as follows:
   a. C-shaped, punched, with 20 gage or equivalent minimum thickness.
   b. Where studs do not extend to structure above, extend one stud every four feet to structure, or provide alternative adequate bracing back to the structure to support wall mounted systems furniture, cabinetry, or other equipment.
   c. Provide a top deflection track detail at structures where floor deflection is anticipated.
d. Install control joints as recommended by manufacturer; maximum 30 feet on center.
   Align control joints with edges of door frames where possible.

e. At plumbing walls, provide a bottom track with weep holes.

3. **Wall blocking:** Provide non-combustible wood blocking with the stud cavity at door stops, grab bars, handrails, bumper guards, shower seats, shelves, towel bars, baby change tables, toilet partitions, and other wall mounted accessories and equipment that may be weight bearing. 16 gauge steel strips are an option, if wood blocking is not feasible in existing construction. Typically, in-wall reinforcing is not required at binder bins. Coordinate location, mounting heights and lengths with UMHHC Capital Equipment planners. Design professionals to punchlist blocking installation prior to gypsum board installation. If blocking is considered to be omitted at an existing partition, review with the Design Manager.

**SUSTAINABLE DESIGN REQUIREMENTS**

1. Gypsum products shall contain a minimum of 90% total recycled content. Total recycled content shall be based on the sum of post-consumer + ½ pre-consumer combined recycled content. Gypsum products will be manufactured at a special plant if the recycled content is specified as noted above.

2. Acceptable products include (but are not limited to) the following:
   a. CertainTeed, 5/8” Gypsum Panel
   b. USG, 5/8” Sheet Rock Panel

3. Gypsum products shall be manufactured within 500 miles of the construction site.

4. Alternative products not listed above shall be reviewed and approved by the UMHHC Design Manager.