

## DIVISION 9 FINISHES

### 09250 GYPSUM WALLBOARD

#### Part 1 – General

##### 1.1 WORK

- A. Provide everything that is required to complete the work in the **Scope** and as specified herein.
- B. Where additional instruction is required, work shall be as directed by the **Inspector**.
- C. When work involves removal or disturbance of painted or otherwise coated surfaces, the **Contractor** shall comply with [Section 02050 Demolition](#) and [Section 01810 Lead Dust Hazards](#).

##### 1.2 QUALITY STANDARDS

- A. Provide experienced, well-trained workers competent to complete the work as specified.
- B. Provide a certified lead abatement supervisor and certified lead abatement workers to perform any surface preparation work, including but not limited to wet scraping, wet sanding, **HEPA planning**, heat gunning, clean up and debris removal per [Section 01810 Lead Dust Hazards](#).
- C. All work shall comply with manufacturer's instructions and governing building and safety codes.
- D. All work shall comply with the Gypsum Association, "Application and Finishing of Gypsum Board", GA-216-2000, February 2000.

##### 1.3 SUBMITTALS

- A. **Contractor** shall notify the Milwaukee Health Department (MHD) – Lead Section (414-286-5033) **at least 24 hours prior to starting any work that involves disturbance of painted or otherwise coated surfaces**. MHD will assign a Lead Risk Assessor to monitor the work to document lead safe rehabilitation procedures were followed.

##### 1.4 PRECONSTRUCTION AND PREPARATION

- A. Examine and verify that job conditions are satisfactory for speedy and acceptable work.
- B. Confirm that there is no conflict between this work and the governing lead-safe rehabilitation rules or [Section 01810 Lead Dust Hazards](#).
- C. **Notify the Milwaukee Health Department – Lead Section (414-286-5033) at least one day in advance of starting any work under this section.**
- D. Confirm that work of other trades that must precede this work has been completed.

#### PART 2 – MATERIALS

##### 2.1 GYPSUM WALLBOARD

- A. Gypsum wallboard shall be manufactured by:
  - National Gypsum Company
  - American Gypsum
  - Georgia Pacific Gypsum
  - Lafarge North America
  - United States Gypsum Company
- B. Provide boards in 8 foot or other lengths for a minimum of joints.
- C. Use types and thicknesses as listed on the **Scope** and as specified herein.

##### 2.2 METAL TRIM AND ACCESSORIES

- A. Metal trim shall be zinc-coated steel 26 gauge.
- B. Corner beads:
  - Angle shapes with wings not less than 7/8 inch wide.
  - Perforated for nailing and joint treatment.

- Or use paper/metal combination bead suitable for joint treatment.

## 2.3 JOINTING

- A. Jointing system with reinforcing tape and compound as recommended by the gypsum wallboard manufacturer.

## 2.4 FASTENINGS

- A. For gypsum wallboard attached to wood framing:
- Use 1-1/4 inch type W bugle-head screws.
  - Alternate: Annular ring nails (drywall nail).
  - Nail sizes as required by the building code.

## 2.5 ACCESS DOORS AND PANELS

- A. Access doors and panels in plastered walls and ceilings:
- Install as listed on the **Scope** or as specified herein.
  - Install where necessary to provide access to plumbing, or other mechanical systems.
- B. Types of access doors and panels:
- Metal or plastic access doors sized adequately, shall be installed per manufactures instructions.
  - Job built access panels must be adequately sized, made of gypsum or plywood, neatly trimmed and cased with finish lumber, and painted.

## 2.6 MATERIALS DELIVERY AND STORAGE

- A. Delivery:
- All gypsum wallboard and accessories shall be delivered new and undamaged.
  - Material sizes shall be as specified on the **Scope** or as specified herein.
- B. Storage:
- Have materials delivered in a timely sequence as required to expedite the workflow.
  - Store all materials in a secure, clean, dry location with ample ventilation.
  - Well supported off the ground.
  - Protected from weather or moisture.
  - Neatly stacked to prevent warping.
  - Protected from occupant and construction traffic.
  - Stored with level support to prevent toppling.
  - Do not overload floor construction with stored wallboard.

## 2.7 WORKING CONDITIONS

- A. Maintain a proper work environment:
- Clean, dry, well ventilated work area.
  - Free of airborne construction dust.
  - Well lighted
  - Within temperature range required by paint manufacturer.
  - Keep humidity low enough to prevent moisture condensation on work surfaces.
  - Do not apply paint in snow, rain, fog, or when relative humidity exceeds 85%.
  - Never apply paint to damp or wet surfaces.

## PART 3 – APPLICATION

### 3.1 PREPARATION

- A. Preparation and coordination:
- Install blocking and backups to support all edges of wallboard.
  - Verify that wood framing to receive wallboard is dry and not subject to shrinkage.

- Verify that all-mechanical equipment i.e. wiring, piping, ductwork, etc. is properly protected from nail and screw penetration.
- B. Work area shall be within the manufacturer's recommended temperature range.

### 3.2 INSTALLATION

- A. Install as per manufacturer's instructions, local building codes, per the Gypsum Association, "Application and Finishing of Gypsum Board", GA-216-2000, February 2000, and as specified herein.
- B. If there is a conflict between instructions, standards, code, etc. install as instructed by **Inspector**.
- C. For walls and ceilings:
- Hold wallboard  $\frac{3}{8}$  inch to  $\frac{1}{2}$  inch up from floor.
  - Install wall panels horizontally unless otherwise required.
  - Stagger panel joints vertically.
  - Stagger panel joints back-to-back if using double-layered panels.
  - Keep long joints of ceiling straight and aligned.
  - Stagger short joints of ceiling panels at half the long dimensions of panels.
  - Keep joints to a minimum.
  - Keep joints tightly fitted.
  - Align doorjamb and vertical joints.
  - Keep piecing and use of odd sizes to an absolute minimum.
  - Use moisture-resistant wallboard (green board) in damp environments.
  - Seal edges and cuts of wallboard in damp environments.
  - Install metal corners and other protective strips where finish wallboard edges might be damaged.
  - Never force wallboards into place.
  - Install gypsum wallboard at right angles to furring or studs.
  - All end joints over framing or furring members.
  - Install wallboard to ceilings with long dimension of board at right angles to joists.
- D. Nailing and screw attachment:
- Attach screws with clutch-controlled power screwdrivers.
  - Attach screws at 12" o.c. at ceilings and 16" o.c. at walls.
  - Where wall-framing members are 24 inches apart, space screws 12" o.c.
  - Start nailing from centers of panels, and proceed outward to edges.
  - Avoid paper damage in nailing.
  - Where paper damage occurs, add another nail within about 2 inches.
  - Do not proceed with nailing into wood framing that has over 19% of moisture content.
- E. Sealing:
- Thoroughly seal penetrations in fire-rated walls.
  - Cut cutouts for electrical outlets, switch boxes, pipe, etc., tightly to size.
- F. Taping and spackling:
- Follow applicable trade standards and manufacturer's instructions throughout.
  - Keep temperature above specified minimum (usually 55 degrees Fahrenheit).
  - Do not allow any bumps, bubbles, or dimples in taping and spackling.
  - Allow 24 hours between spackling coats.
  - Sand and spackle wallboard as required, as base for final specified texture or finish.
  - Do not track gypsum and spackle dust to clean areas.
  - Final spackle coat shall be sanded smoothly.
  - Final spackle coat shall be feathered outward from 12 inches to 16 inches, each side of joint.
- G. Joint treatment:
- Gypsum wallboard must fit completely snugly against supporting framework.
  - Joint work shall be at a minimum of 55 degrees Fahrenheit for 24 hours prior to work.
  - Joint and finishing compounds must dry 24 hours before starting finishing.
  - Apply joint treatment and finishing compound by machine or hand tool.
  - Allow minimum drying time of 24 hours.
  - Allow additional drying time in humid or poorly ventilated areas.
  - Embedding compounds shall be applied at wallboard joints and fastener heads in thin uniform layer.
  - Spread embedding compound not less than 3 inches wide at joints.

- Finishing compounds shall be applied to joints and fastener heads when compound is dry and has been sanded.
- Sandpaper between coats, and do final sandpaper work to eliminate all ridges and high points.
- Feather finishing compound to not less than 12 inches wide.
- When thoroughly dry, sandpaper to a uniform smooth surface without damaging wallboard.

### 3.3 ACCESS DOORS

- A. Install access doors in coordination with other work and as listed in the **Scope**.
- Anchor access doors firmly into position.
  - Install access doors to be completely straight, flush, and aligned with finished surface.
  - Install access doors so they can be easily opened without damaging the surrounding surfaces.

### 3.4 METAL TRIM

- A. Provide all metal trim as required to complete the work.
- B. Securely nail corner beads.
- With required type and size nail.
  - Starting 2 inches from each end.
  - Space and stagger as required by wallboard system manufacturer.

### 3.5 CLEANING AND REPAIR

- A. When work involves removal or disturbance of painted or otherwise coated surfaces, cleanup shall comply with [Section 01810 Lead Dust Hazards](#), and as specified herein.
- B. Cleaning:
- Don't allow tracking of gypsum and finishing compounds onto floor surfaces.
  - Don't allow gypsum and compound dust to accumulate on horizontal surfaces.
  - At completion of each segment of work in a room, clean thoroughly and remove all debris.
  - Frequently remove all debris from site.
  - Do not allow gypsum dust to blow around and contaminate other areas of the work site.
  - Immediately clean any spilled, splattered, or smeared joint compound.

### 3.6 INSPECTION AND REPAIRS

- A. Recheck work for necessary repairs that may be required before painting or other added work.
- B. Make repairs as directed by the **Inspector**.

**END OF SECTION – 09250 GYPSUM WALLBOARD**