

Section 09 29 16 Gypsum Board Systems

Specifications

09 29 16-1

PART 1 - GENERAL

- 1.01 SECTION INCLUDES
- A. Metal stud framed interior partitions and exterior assemblies
 - B. Metal suspension systems
 - C. Metal stud soffit framing and exterior sheathing
 - D. Taped and sanded joint treatment.
 - E. Expansion controls, corner edges and beads.
- 1.02 RELATED SECTIONS
- A. Section 06 10 00 - Rough Carpentry: Wood blocking for support of misc. items.
 - B. Section 07 21 00 – Building Insulation: Thermal insulation also used for sound attenuation.
 - C. Section 09 90 00 - Painting: Surface finish.
- 1.03 REFERENCES
- A. ASTM C36 - Gypsum Wallboard.
 - B. ASTM C475 - Joint Treatment Materials for Gypsum Wallboard Construction.
 - C. ASTM C514 - Nails for the Application of Gypsum Wallboard.
 - D. ASTM C645 - Non-Load (Axial) Bearing Steel Studs, Runners (Track), and Rigid Furring Channels for Screw Application of Gypsum Board.
 - E. ASTM C840 - Application and Finishing of Gypsum Board.
 - F. ASTM C1002 - Steel Drill Screws for the Application of Gypsum Board.
 - H. GA-201 - Gypsum Board for Walls and Ceilings.
 - I. GA-216 - Specifications for the Application and Finishing of Gypsum Board.
 - J. ASTM C79 – Test Method for Gypsum Sheathing Board
 - K. ASTM C473 – Test Methods for Physical Testing of Gypsum Panel Products.
 - L. ASTM C630 – Specifications for Water Resistant Gypsum Backing Board.
 - M. ASTM C1280 – Specification for Application of Gypsum Sheathing
 - N. GA – 214 – Recommended Specifications: Levels of Gypsum Board Finish.
- 1.04 SUBMITTALS
- A. Submit under provisions of Section 01 33 00.
 - B. Product Data: Provide data on metal framing, gypsum board, and joint tape.
- 1.05 QUALITY ASSURANCE
- A. Perform Work in accordance with GA-201, GA-216 and GA-600; note that reference to specific individual provisions and standards (of the GA specifications) elsewhere in this Section does not exclude the requirement for compliance with all the applicable provisions of the GA specifications.
- 1.06 QUALIFICATIONS
- A. Applicator: Company specializing in performing the work of this section with minimum three years documented experience.
- 1.07 PERFORMANCE REQUIREMENTS
- A. Select steel studs in accordance with the manufacturer's standard load tables and following design pressures and deflections:
 - 1. All partitions: L/240 at 5 psf.

PART 2 - PRODUCTS

- 2.01 MANUFACTURERS - GYPSUM BOARD SYSTEM
- A. United States Gypsum Company
 - B. Other acceptable manufacturers offering equivalent products
 - 1. National Gypsum
 - 2. Temple Inland
 - C. Manufacturers of Metal Studs (In addition to manufacturers noted above):

Specifications

Section 09 29 16 Gypsum Board Systems

Specifications

09 29 16-2

1. Clark Steel
2. Dale/Incor
3. MarinoWare
4. Unimast

2.02 FRAMING MATERIALS

- A. Studs and Tracks: ASTM C645; galvanized sheet steel, 20 gage, C shape studs, with knurled faces, sizes indicated in drawings, heavier gages where noted and required due to loads and lengths (18 gage at exterior walls). NOTE: Deflection limited to L360. Provide stud gage appropriate for exterior soffit locations.
- B. Furring, Framing and Hat Channels: ASTM C645, galvanized; 1-5/8" at wall panels.
- C. Fasteners: ASTM C1002, type S12.

2.03 GYPSUM BOARD MATERIALS

- A. Moisture Resistant Gypsum Board: ASTM C630; 1/2 inch thick, maximum permissible length; ends square cut, tapered edges.
- B. Gypsum Board: 1/2 and 5/8 inch thick as noted in drawings, maximum permissible length; ends square, tapered edges.
- C. Fire Rated Gypsum Board: Type X, 5/8 inch thick, maximum permissible length; ends square cut, tapered edges.
- D. Ceiling Board: ASTM C1396, non-sag type, 1/2" thick min.

2.04 EXTERIOR GYPSUM SHEATING

- A. Gypsum Sheathing Board: 1/2" thick, maximum available size in place; ends square cut edges; water repellent paper faces.
 1. Acceptable Manufacturers and Products.
 - a. Georgia Pacific DensGlas Exterior Sheathing.
 - b. National Gypsum Company e²XP Exposure Sheathing.

2.05 ACCESSORIES

- A. Anchorage to Substrate: Tie wire, nails, screws and other metal supports, of type and size to suit application; to rigidly secure materials in place; only use materials acceptable to gyp board and metal stud manufacturers.
- B. Adhesive: ASTM C557.
- C. Edge Trim: GA-216, type LC bead.
- D. Control Joints: Equal to USG No. 093
- E. Provide lockable, paintable, fire rated as required access panels as needed to facilitate equipment maintenance. Provide submittal to architect for approval.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that site conditions are ready to receive work.

3.02 METAL STUD AND FURRING INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Use appropriate gage studs according to application, lengths, and location.
- C. Coordinate framing with recessed items; provide appropriate blocking and bracing.

3.03 CEILING FRAMING INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Coordinate location of hangers with other work.
- C. Install ceiling framing independent of walls, columns, and above ceiling work.
- D. Reinforce openings in ceiling suspension system which interrupt main carrying channels or furring channels, with lateral channel bracing. Extend bracing minimum 24 inches past each end of openings.
- E. Laterally brace entire suspension system.

Specifications

Section 09 29 16 Gypsum Board Systems

Specifications

09 29 16-3

- 3.04 GYPSUM BOARD INSTALLATION
- A. Install gypsum board in accordance with manufacturer's instructions.
 - B. Erect single layer standard gypsum board in most economical direction, with ends and edges occurring over firm bearing.
 - C. Use screws when fastening gypsum board to metal furring or framing.
 - D. Place control joints consistent with lines of building spaces as indicated.
 - E. Install moisture resistant gypsum board (where new board is indicated in drawings) at restrooms, shower ceilings, janitor and toilet rooms.
 - F. Fire-Rated and Smoke Partitions: Provide stenciled labeling of rating every ten (10) feet above ceilings.
- 3.05 BACKER BOARD INSTALLATION
- A. Install cement board in accordance with manufacturer's instructions.
 - B. Do not use gyp board screws for attachment; use only fasteners recommended by manufacturer.
- 3.06 ACCESSORIES INSTALLATION
- A. Install in accordance with manufacturer's instructions.
 - B. Use metal corner reinforcement at all external corners.
- 3.07 JOINT TREATMENT
- A. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
 - B. Feather coats onto adjoining surfaces so that camber is maximum 1/32 inch.
 - C. Prepare backer board joints as recommended by board manufacturer at tile locations.
 - D. Finish on interior gypsum to be painted shall be "smooth".
 - E. Install control joints on uninterrupted spans of gypsum board at a minimum of every 50'. Install gypsum control joints above vertical interruptions including, but not limited to the following:
 - 1. Above both sides of door openings
 - 2. Above and below window openings.
- 3.08 TOLERANCES
- A. Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8 inch in 10 in any direction.

END OF SECTION

Section 09 51 23 Suspended Acoustical Ceilings

Specifications

09 51 23-1

PART 1 - GENERAL

- 1.01 SECTION INCLUDES
- A. Suspended metal grid ceiling system; with manufacturer's custom (trim channel) only where indicated in drawings.
 - B. Acoustical tile panels.
- 1.02 SYSTEM DESCRIPTION
- A. Install system capable of supporting imposed loads to a deflection of 1/240 maximum.
 - B. Installed System: Conform to UL rating for ceiling and roof assembly.
 - C. Conform to applicable code for fire rated assembly combustibility requirements.
- 1.03 SUBMITTALS
- A. Provide manufacturer's product data, with actual chip selection board for both mosaic tile and grout color.
 - B. Submit one 12" square sample of each type of tile to be used, indicative of color/finish.
 - C. Ceiling tile manufacturer's 15 year no-sag warranty.
- 1.04 QUALIFICATIONS
- A. Applicator: Company specializing in performing the work of this section with minimum three years documented experience.
- 1.05 WARRANTY
- A. Minimum 5-years against grid support failure and sagging tiles

PART 2 - PRODUCTS

- 2.01 SUSPENSION SYSTEM (TYPE 1)
- A. Manufacturers:
 - 1. U.S.G. Interiors
 - a. Grid: DONN DXL (Match existing in the field)
 - 2. Armstrong
 - a. Grid: Prelude XL (Match existing in the field)
 - B. Grid Materials: Commercial quality cold rolled steel with galvanized coating; 9/16 inch.
 - C. Grid Finish: Baked polyester; white.
 - D. Grid Spacing: To match existing.
 - E. Support Channels and Hangers: Galvanized steel, flush fit intersections at grid face.
- 2.02 ACOUSTICAL UNITS (TYPE 1)
- A. Manufacturers:
 - 1. U.S.G. Interiors
 - a. Radar Climaplus (Match existing in the field)
 - 2. Armstrong
 - a. Schoolzone Fine Fizzured (Match existing in the field)
 - B. Acoustical Tile: Conforming to the following:
 - 1. Size: 24 x 24 inches .
 - 2. Thickness: 3/4-inches.
 - 3. Surface Finish: Fine fissured surface.
 - 4. Edge: Square.
 - 5. Color: White.
- 2.03 ACCESSORIES
- A. Hold-down clips as recommended by manufacturer of suspension system.
- 2.04 MAINTENANCE STOCK
- A. Stock Materials: Provide extra stock material equal to 1 box of each type rounded up to the nearest unopened box.

Section 09 51 23 Suspended Acoustical Ceilings

Specifications

09 51 23-2

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that layout of hangers will not interfere with other work.
- B. Note existing obstructions and appurtenances that will require verification, consideration, and/or clarification by the Architect for installation of ceilings.

3.02 INSTALLATION - SUSPENSION SYSTEM

- A. Install system in accordance with ASTM C636 manufacturer's instructions.
- B. Notify Architect at start of, but prior to, installation of ceiling grid to approve height location of grid.
- C. Coordinate the location of hangers with other work. Where components prevent the regular spacing of hangers, reinforce the system to span the extra distance.
- D. Hang system independent of walls, columns, ducts, pipes and conduit.
- E. Center system on room axis leaving equal border units, refer to reflected plan.
- F. Install edge molding at intersection of ceiling and vertical surfaces, using longest practical lengths.
- G. Install trim channel edges where indicated in drawings; provide all components and accessories necessary to effect design requirements indicated.

3.03 INSTALLATION - TILE UNITS

- A. Install acoustical units level, free from damage, twist, warp or dents.

END OF SECTION

Section 09 65 00 Resilient Flooring and Base

Specifications

09 65 00-1

PART 1 GENERAL

- 1.01 SECTION INCLUDES
- A. Resilient tile flooring.
 - B. Resilient base at walls, toe spaces, and exposed ends at casework.
- 1.02 RELATED SECTIONS
- A. Section 03 30 00 - Cast-In-Place Concrete: Floor substrate surface.
- 1.03 REFERENCES
- A. ASTM E84 - Surface Burning Characteristics of Building Materials.
 - B. ASTM F1066 - Vinyl Composition Floor Tile.
 - C. FS L-F-475 - Floor Covering, Vinyl Surface (Tile), with Backing.
- 1.04 SUBMITTALS
- A. Submit under provisions of Section 01 33 00.
 - B. Shop Drawings: Indicate seaming plan and edge/transition details.
 - C. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns and colors available.
 - D. Samples: Submit two samples of floor tile, 12 x 12 inch in size, and one chain of rubber base, illustrating color and pattern for each floor material for each color specified.
 - E. Manufacturer's Installation Instructions: Indicate special procedures, perimeter conditions requiring special attention, and five year warranty.
- 1.05 REGULATORY REQUIREMENTS
- A. Conform to applicable code for flame/smoke rating requirements in accordance with ASTM E84.
- 1.06 DELIVERY, STORAGE, AND HANDLING
- A. Deliver, store, protect and handle products to site under provisions of Section 01 60 00.
- 1.07 ENVIRONMENTAL REQUIREMENTS
- A. Store materials for three days prior to installation in area of installation to achieve temperature stability.
 - B. Maintain ambient temperature required by adhesive manufacturer three days prior to, during, and 24 hours after installation of materials.
- 1.08 MAINTENANCE DATA
- A. Submit under provisions of Section 01 70 00.
 - B. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

PART 2 PRODUCTS

- 2.01 MATERIALS - TILE FLOORING
- A. Vinyl Composition Tile: ASTM F1066:
 - 1. Size: 12 x 12 inch
 - 2. Thickness: 1/8 inch
 - 3. Manufacturers:
 - a. Mannington; Style: Essentials
 - b. Armstrong; Style: Standard. Excelon.
 - c. Vinylasa; Nova Series
 - d. Azrock; Style: Custom Cortina
 - e. Tarkett; Style: Thru Chip
 - 4. Color: Match existing in field; refer to drawings for flooring pattern.
- 2.02 MATERIALS - RUBBER BASE
- A. Rubber Base: ASTM-F-1861
 - 1. Size: 4 inch, top-set coved, continuous rolls of 100', performed corners
 - 2. Thickness: 1/8 inch
 - 3. Color: To match existing.

Section 09 65 00 Resilient Flooring and Base

Specifications

09 65 00-2

4. Manufacturers:
 - a. Flexco
 - b. Johnsonite

2.03 ACCESSORIES

- A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.
- B. Primers and Adhesives: Waterproof; types recommended by flooring and base manufacturer.
- C. Edge Strips: Flooring material manufactured by floor manufacturer.
- D. Sealer and Wax: Types recommended by flooring manufacturer.

2.04 MAINTENANCE STOCK

- A. Provide extra stock material equal to 1 box of each color of VCT. Round up to the nearest whole unopened box.
- B. Provide extra stock material equal to 1 box of continuous roll rubber base.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify concrete floors are dry to a maximum moisture content required by flooring manufacturer, and exhibit negative alkalinity, carbonization, or dusting.
- B. Verify floor and lower wall surfaces are free of substances that may impair adhesion of new adhesive.

3.02 PREPARATION

- A. Remove sub-floor ridges and bumps. Fill minor or local low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.
- B. Prohibit traffic until filler is cured; vacuum clean substrate.
- C. Apply primer to surfaces recommended by manufacturer appropriate for subfloor of subject installation.

3.03 INSTALLATION

- A. Install in accordance with manufacturer's instructions. **Installation to include pattern as per the drawings.**
- B. Mix tile from container to ensure shade variations are consistent when tile is placed.
- C. Spread only enough adhesive to permit installation of materials before initial set.
- D. Set flooring in place, press with heavy roller to attain full adhesion.
- E. Lay flooring with joints and seams parallel to building lines to produce symmetrical tile pattern.
- F. Install tile to basket weave pattern. Allow minimum 1/2 full size tile width at room or area perimeter.
- G. Terminate flooring at centerline of door openings where adjacent floor finish is dissimilar.
- H. Install resilient edge strips at unprotected or exposed edges, and where flooring terminates.
- I. Scribe flooring to walls, cabinets, floor outlets, and other appurtenances to produce tight joints; at crevasse exists between floor tile and material (other than perimeter SGFT base), provide and install appropriate (sealant with matching color to flooring) at crevasse.
- J. Scribe resilient flooring to adjacent base, but allow for portion of tile to slide into any abutting raked joint at SGFT or masonry that is not to receive rubber base; seal resultant crevasse above resilient flooring and below SGFT or masonry; see Section 07 92 00 for sealant.
- K. Install flooring in or on floor access covers, cleanouts, etc. Maintain floor pattern.
- L. Install rubber base at toe kicks and exposed sides of laminate clad casework; use only premolded pieces at external and internal corners.

3.05 CLEANING

- A. Clean work under provisions of 01 70 00.
- B. Remove access adhesive from floor, base, and wall surfaces without damage.
- C. Clean, seal, and wax floor and base surfaces in accordance with manufacturer's instructions; provide (4) coats of wax in corridors, (3) coats at all other rooms.

3.06 PROTECTION OF FINISHED WORK

- A. Protect finished Work.
- B. Prohibit traffic on floor finish for 48 hours after installation.

END OF SECTION

Section 09 90 00 Painting

Specifications

09 90 00-1

PART 1 - GENERAL

- 1.01 SECTION INCLUDES
- A. Surface preparation (sanding, stripping, dulling, priming, etc.) of new surfaces/items and field application of paints and coatings where indicated in room finish schedule and drawings;
 - B. Paint finish at CMU walls, steel doors and hollow metal frames.
 - C. Paint at interior and exterior steel fabrications.
 - D. Stain all new millwork as scheduled.
 - E. Paint at all new millwork items as scheduled
 - F. Paint any exposed conduit, all exposed junction boxes, all exposed ductwork, and all piping and piping insulation.
 - G. Paint at interior and all exterior steel fabrications.
 - H. Note: Interior new wood doors shall be prefinished at factory by others; painting contractor shall be required to match selected stain finish of door manufacturer.
- 1.02 SYSTEM DESCRIPTION
- A. Finish Materials: Conform to applicable code for environmental requirements.
- 1.03 SUBMITTALS
- A. Product Data: Provide data on all finishing products.
 - B. Samples: Submit complete color tear-out chip catalogues of manufacturer's system.
 - C. Field Samples: On wall surfaces and other exterior and interior components, duplicate finishes of prepared samples. Provide full-coat finish samples on at least 100 sq. ft. of surface. Final acceptance of colors will be by the Owner and Architect from job-applied samples.
- 1.04 ENVIRONMENTAL REQUIREMENTS
- A. Store and apply materials in environmental conditions required by manufacturer.
 - B. Maintain MSDS sheets on site during construction in three ring binder and have readily available on site at all times.

PART 2 - PRODUCTS

- 2.01 MATERIALS
- A. Manufacturers:
 - 1. Sherwin Williams.
 - 2. Devoe.
 - 3. Glidden
 - 4. Benjamin Moore
 - 5. PPG Pittsburg Paints
 - B. Coatings: Ready mixed except field catalyzed coatings of good flow and brushing properties, capable of drying or curing free of streaks or sags.
 - C. Accessory Materials: Materials required to achieve the finishes specified.
 - D. Paint Materials, General: Provide block fillers, primers, finish coat materials, and related materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by the manufacturer, based on testing and field experience.
 - E. Material Quality: Provide the manufacturer's best-quality trade sale paint material of the various coating types specified. Paint material containers not displaying manufacturer's product identification will not be acceptable.
 - F. Proprietary Names: Use of Sherwin Williams' proprietary product names to designate materials is not intended to imply that products named are required to be used to the exclusion of equivalent products of other manufacturers. Furnish the manufacturer's material data and certificates of performance for proposed substitutions.
 - G. Material Stock: Provide all unused paint/stain material plus one gallon of each finish color/product to Owner. Label product name and color of all stock materials clearly on outside of container.

Specifications

Section 09 90 00 Painting

Specifications

09 90 00-2

PART 3 - EXECUTION

3.01 EXAMINATION AND PREPARATION

- A. Examine substrates and conditions under which painting will be performed for compliance with requirements. Do not begin application until unsatisfactory conditions have been corrected. The General Contractor shall be responsible for field verification of existing conditions prior to bidding project.
- B. Coordination: Review other Sections in which primers are provided to ensure compatibility of the total systems for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.
- C. Notify the Architect about anticipated problems using the materials specified over substrates primed by others.
- D. Preparation: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to be painted, or provide surface-applied protection prior to surface preparation and painting. Remove these items, if necessary, to completely paint the items and adjacent surfaces. Following completion of painting operations in each space or area, have items reinstalled by workers skilled in the trades involved. Protect all data and electrical outlets. The Contractor shall be responsible for damage to data and electrical outlets due to paint.
- E. Cleaning: Clean substrates of substances that could impair the bond of the various coatings. Remove oil and grease prior to cleaning. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not all on wet, newly painted surfaces.
- F. Surface Preparation: Clean and prepare surfaces to be painted according to the manufacturer's instructions for each particular substrate condition and as specified.
 - 1. Provide barrier coats over incompatible primers or remove and reprime.
 - 2. Caulk all cracks / imperfections prior to application of primer / paint.
 - 3. Wood: Clean surfaces of dirt, oil, and other foreign substances with scrapers, mineral spirits, and sandpaper, as required. Sand surfaces exposed to view smooth and dust off.
 - a. Scrape and clean small, dry, seasoned knots and apply a thin coat of white shellac or other recommended knot sealer before applying primer.
 - b. Prime, stain, or seal wood to be painted immediately upon delivery. Prime edges, ends, faces, undersides, and backsides of wood, including cabinets, counters, cases, and paneling.
 - c. Seal tops, bottoms, and cutouts of unprimed wood doors with a heavy coat of varnish or sealer immediately upon delivery.
- G. Ferrous Metals: Clean ungalvanized ferrous-metal surfaces that have not been shop-coated; remove oil, grease, dirt, loose mill scale, and other foreign substances.
- H. Use solvent or mechanical cleaning methods that comply with recommendations of the Steel Structures Painting Council.
 - 1. Touch up bare areas and shop-applied prime coats that have been damaged.
- I. Wire-brush, clean with solvents and touch up with the same primer as the shop coat.
- J.
- K. Galvanized Surfaces: Clean galvanized surfaces with non-petroleum-based solvents so that the surface is free of oil and surface contaminants. Remove pretreatment from galvanized sheet metal fabricated from coil stock by mechanical methods.
- L. Masonry Surfaces: Block Fill as needed and fill all voids, cracks and pits to achieve a smooth and consistent final paint surface. f. Materials Preparation: Carefully mix and prepare paint materials according to manufacturer's directions.

Section 09 90 00 Painting

Specifications

09 90 00-3

1. Stir material before application to produce a mixture of uniform density; stir as required during application. Do not stir surface film into material. Remove film and, if necessary, strain material before using.
 2. Use only thinners approved by the paint manufacturer and only within recommended limits.
- M. Moisture content report documented and returned to GC to A/E to Owner.

3.02 APPLICATION

- A. Application: Apply paint according to manufacturer's directions. Use applicators and techniques best suited for substrate and type of material being applied. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.
1. The number of coats and the film thickness required are the same regardless of the application method. Do not apply succeeding coats until previous coat has cured. Sand between applications where sanding is required to produce an even smooth surface.
 2. Apply additional coats if undercoats, stains, or other conditions show through final coat of paint until paint film is of uniform finish, color, and appearance.
 3. The term exposed surfaces includes areas visible when permanent or built-in fixtures are in place. Extend coatings in these areas to maintain system integrity and provide desired protection.
 4. Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces. Paint surfaces behind permanently fixed equipment or furniture with prime coat only.
 5. Paint back sides of access panels and removable or hinged covers to match exposed surfaces.
 - a. Inspection of Painting: The Contractor shall notify the Architect after each coat of paint is applied in order to allow the Owner and Architect to inspect the application of each coat of paint. Subsequent coats of paint shall not be authorized until the Owner and Architect has inspected the previously applied coat of paint.
 - b. Scheduling Painting: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practicable and before subsequent surface deterioration. Allow sufficient time between successive coats to permit proper drying. Do not recoat until paint has dried.
 - c. Application Procedures: Apply paints and coatings by brush, roller, spray or other applicators according to manufacturer's directions.
- B. Brushes: Use brushes best suited for the material applied.
- C. Rollers: Use rollers of carpet, velvet back, or high-pile sheep's wool as recommended by the manufacturer for the material and texture required.
- D. Spray Equipment: Use airless spray equipment with orifice size as recommended for the material and texture required.
1. Minimum Coating Thickness: Apply materials at the manufacturer's recommended spreading rate. Provide the total dry film thickness of the entire system as recommended by the manufacturer.

3.03 CLEANING

- A. As work proceeds, promptly remove finishes where spilled, splashed, or spattered.

Section 09 90 00 Painting

Specifications

09 90 00-4

- 3.04 SCHEDULE
- A. Exterior Iron:
 - 1. Surface Prep: SW14 or SW15
 - 2. Primer:(1 coat) Kem Kromik Universal Metal Primer. (2.5 mils)
 - 3. Two Coats: Water Based Catalyzed Epoxy (2.5 – 3.0 Mils)
 - B. Exterior Metal Doors/Frames:
 - 1. Surface Prep: SW 14 or SW 15
 - 2. Primer:(1 coat) Kem Kromik Universal Metal Primer. (2.5 mils)
 - 3. Two Coats: Water Based Catalyzed Epoxy (2.5 – 3.0 Mils)
 - C. All Interior Wall Surfaces (excluding masonry):
 - 1. Surface Prep: SW 8 or SW 12
 - 2. Primer: (1 coat) Prep Rite 200 Latex primer (1.4mils)
 - 3. Two Coats: Water Based Catalyzed Epoxy (2.5 – 3.0 Mils)
 - D. Interior Drywall - Ceilings:
 - 1. Surface Prep: SW 8 or SW 12
 - 2. Primer: (1 coat) Prep Rite 200 Latex primer (1.4mils)
 - 3. Two Coats: Water Based Catalyzed Epoxy (2.5 – 3.0 Mils)
 - E. Interior Metal:
 - 1. Surface Prep: SW 15 or SW 12 Primer: (1 coat) Kem Kromik Universal Metal Primer. (2.5 mils)
 - 2. Two Coats: Water Based Catalyzed Epoxy (2.5 – 3.0 Mils)
 - F. Exterior and Interior Masonry:
 - 1. Surface Prep: SW Heavy Duty Block Filler (2 coats)
 - 2. First Coat: SW Loxon Exterior Acrylic Masonry Primer, A24W300 (8 mils wet, 3.1 mils dry)
 - 3. Second Coat: Water Based Catalyzed Epoxy (2.5 – 3.0 Mils)
 - 4. Third Coat: Water Based Catalyzed Epoxy (2.5 – 3.0 Mils)
 - G. Wood - Stained:
 - 1. One coat MinWax Interior Oil Stain, color to be selected.
 - 2. One coat Wood Classics Sanding Sealer, B26V43.
 - 3. Two coats Wood Classics polyurethane varnish hand rubbed satin A67FI.
 - H. High temperature pipe or equipment:
 - 1. One coat of Kem Hi-Temp 500 Primer (1.3 mils)
 - 2. One coat of Kem Hi-Temp 500 Topcoat (1.3 mils)
 - K. Rated Walls:
 - 1. Provide a stencil label in contrasting color of the UL Assembly Number and Hourly Rating. Label shall be located above the ceiling at a frequency not less than every 10 feet.

END OF SECTION

Section 10 10 05 Visual Display Boards, Projection Screens, & Classroom Specialties

Specifications

10 10 05-1

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Marker Boards; Tackboards
- B. Trim, Chalkrail, and accessories.

1.03 REFERENCES

- B. ASTM B221 - Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes.
- B. ASTM C543 - Slate Blackboards.
- C. ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials.
- D. FS CCC-W-408 - Wall Covering, Vinyl-Coated.
- E. FS L-P-1040 - Plastic Sheets and Strips, Polyvinyl Floride.
- F. HPMA HP - Hardwood and Decorative Plywood.

1.04 SUBMITTALS

- A. Submit under provisions of Section 01 33 00.
- B. Shop Drawings: Indicate wall elevations, dimensions, joint locations, special anchor details.
- C. Product Data: Provide data on marker boards, tackboards, tackboard surface covering, and trim and accessories, projection screens, ballet barre and brackets.
- D. Samples: Submit two (2) samples illustrating materials and finish, color and texture of chalkboard, chalkboard and trim, tackboard, and tackboard surfacing.

1.05 OPERATION AND MAINTENANCE DATA

- A. Maintenance Data: Include data on regular cleaning, stain removal.

1.06 REGULATORY REQUIREMENTS

- A. Conform to applicable code for flame/smoke rating for vinyl fabric covered tackboards in accordance with ASTM E84.

1.07 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing the Products specified in this section with minimum three (3) years documented experience.

1.08 FIELD MEASUREMENTS

- A. Verify that field measurements are as indicated on shop drawings and instructed by the manufacturer.

1.09 WARRANTY

- A. Provide five (5) year warranty under provisions of Section 01 70 00.
- B. Warranty: Coverage of chalkboard surface from discoloration due to cleaning, crazing, cracking, staining.

PART 2 PRODUCTS

2.01 MANUFACTURERS – VISUAL DISPLAY BOARDS

- A. Carolina Chalkboards.
- B. Nelson Adams.
- C. Claridge

2.02 MARKER BOARD

- A. Backing: 3/8 inch particleboard with 0.015 inch aluminum backing sheet.
- B. LCS face: 24 gauge steel off-white porcelain enamel finish.

2.03 TACKBOARD SURFACING MATERIAL

- A. Backing: 1/4 inch thick hardboard with foil face.
- B. Cork: Fine grain natural cork, homogeneous composition 1/4" thick.
- C. Tackboard Covering: Vinyl roll stock
 - 1. Carolina Tackboard No. 1950
 - 2. Claridge Fabriccork
 - 3. Colors: To be selected.

2.04 CORE AND FRAME MATERIALS

- A. Frame and Chalkrail: Aluminum extrusions, ASTM B221, 6061 alloy, temper.
 - 1. Claridge - head #275A, Sides #273A, mullion #272A, chalktrough #271A.
 - 2. Carolina trim series 600.
- B. Grounds: Aluminum extrusions, surface applied.
 - 1. Claridge: No. 277 ground clip