SECTION 09510 - ACOUSTICAL PANEL CEILINGS

1.1 GENERAL

A. Submittals: In addition to product data for each type of acoustical panel and suspension system required, submit the following: One set of 12-inch- (300-mm-) long samples of exposed suspension system members, including moldings, for each color and system type required.

B. Seismic Standard; in areas subject to seismic zones: Provide acoustical tile ceilings designed and installed to withstand the effect of earthquake motions according to the following:

1. Standard for Ceiling Suspension Systems Requiring Seismic Restraint: Comply with ASTM E580.

2. Acoustical Installation contractor to verify and comply with requirements of authorities having jurisdiction.

3. UBS Standard 25-2, "Metal Suspension Systems for Acoustical Tile and for Lay-in Panel Ceilings".

4. ASCE 7. "Minimum Design Loads for Building and Other Structures": Section 9. " Earthquake Loads".

5. Special Inspections: Engage a qualified special inspector to perform the following special inspections where required by governing authority:

a. Compliance of seismic design.

1.2 PRODUCTS

A. Acoustical Tile Products: Subject to compliance with requirements, provide the following:

1. Suspension system and acoustic panels as listed in finish legend within drawings.

B. Acoustical Tile Standard: Provide manufacturer's standard tiles of configuration indicated that comply with ASTM E 1264 classifications as designated by types, acoustical ratings, and light reflectances, unless otherwise indicated.

1. Mounting Method for Measuring Noise Reduction Coefficient (NRC): Type E-400 (plenum mounting in which face of test specimen is 15-3/4 inches [400 mm] away from the test surface) per ASTM E 795.

2. Test Method for Ceiling Attenuation Class (CAC): Where acoustical tile ceilings are specified to have a CAC, provide units identical to those tested per ASTM E 1414 by a qualified testing agency.

C. Water-Felted, Mineral-Base Tiles: Type III, Form 2 acoustical tiles per ASTM E 1264, with painted finish, complying with pattern and other requirements indicated on drawings.

D. Wire Hangers, Braces, and Ties: Provide wires complying with the following requirements:

1. Zinc-Coated Carbon Steel Wire: ASTM A 641 (ASTM A 641M), Class 1 zinc coating, soft temper.

2. Size: Select wire diameter so that its stress at 3 times the hanger design load (ASTM C 635, Table 1, Direct Hung) will be less than the yield stress of wire, but provide not less than 0.106-inch- (2.69-mm-) diameter wire.

E. Sheet-Metal Edge Moldings and Trim: Type and profile indicated, or if not indicated, manufacturer's standard moldings for edges and penetrations that fit acoustical tile edge details and suspension systems indicated; formed from sheet metal of same material and finish as that used for exposed flanges of suspension system runners.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

a. Armstrong World Industries, Inc.

b. Chicago Metallic Corporation.

c. USG Interiors, Inc.

F. Fire-Resistance-Rated Suspension System: Provide manufacturer's standard metal suspension systems of types, structural classifications, and finishes indicated that comply with applicable ASTM C 635 requirements:

1. Direct-Hung, Double-Web Suspension System: Main and cross runners roll formed from and capped with pre-painted or electrolytic zinc-coated, cold-rolled steel sheet; other characteristics as follows:

a. Structural Classification: Heavy-duty system.

b. Access: Upward, with initial access openings of size indicated or, if not indicated, as selected by Architect from opening sizes approved for the fire-resistance-rated assembly indicated. Locate initial access openings throughout the ceiling within each module formed by main runners and cross runners, and make additional access available through progressively removing remaining acoustical tiles.

2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

a. Armstrong World Industries, Inc.

b. Chicago Metallic Corporation.

c. USG Interiors, Inc.

G. Maintenance stock: At time of completion, provide two packages of each type of acoustic panels to owner for future replacement.

1.3 EXECUTION

A. General: Install acoustical tile ceilings to comply with publications referenced below per manufacturer's instructions and CISCA "Ceiling Systems Handbook."

1. Standard for Ceiling Suspension System Installations: Comply with ASTM C636/C636M.

2. CISCA Recommendations per "Ceiling Systems Handbook" for Acoustical Ceilings: Comply with CISCA "Recommendations for Direct-Hung Acoustical Tile and Lay-In Panel Ceilings."

B. Suspend ceiling hangers as follows:

1. Secure wire hangers to ceiling suspension members and to supports above. Connect hangers either directly to structures or to inserts, eye screws, or other devices that are secure, that are appropriate for substrate, and that will not deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.

2. Space hangers not more than 48 inches (1200 mm) o.c. along each member supported directly from hangers, unless otherwise shown; and provide hangers not more than 8 inches (200 mm) from ends of each member.

3. Splay hangers only where required to miss obstructions; offset resulting horizontal forces by bracing, countersplaying, or other equally effective means. Where width of ducts and other construction within ceiling plenum produces hanger spacing that interfere with location of hangers at spacing required to support standard suspension-system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices.

C. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical tiles.

D. Install suspension system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.

E. Install acoustical tiles in coordination with suspension system. Place splines or suspension system flanges into kerfed edges so that tile-to-tile joints are closed by double lap of material.

1. Fit adjoining tile to form flush, tight joints. Scribe and cut tile for accurate fit at borders and around penetrations through tile.

2. Hold tile field in compression by inserting leaf-type, spring-steel spacers between tile and moldings, spaced at 12 inches (305 mm) o.c.

3. Fabricate access units for special suspension system access members and tile units modified as required to allow for removal of access units.

4. Clean exposed surfaces of acoustical tile ceilings, including trim and edge moldings. Comply with manufacturer's written instructions for cleaning and touch up of minor finish damage. Remove and replace tiles and other ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION 09510

SECTION 09660 - RESILIENT WALL BASE AND TILE FLOORING

1.1 GENERAL

A. Submittals: In addition to product data, submit the following.

1. Samples of each type, color, and pattern of resilient base and floor tile.

2. Maintenance data for resilient base and floor tile, to be included in Operating and Maintenance Manual specified in Division 1.

B. Extra Materials: Deliver to Owner not less than one box for each 50 boxes or fraction thereof, of each class, wearing surface, color, pattern, and size of resilient base and floor tile installed.

1.2 PRODUCTS

A. Available Products: Subject to compliance with requirements, resilient floor tiles that may be incorporated in the work include, but are not limited to, the products specified in the drawings.

B. Products: Subject to compliance with requirements, provide one of the products specified in the drawings.

C. Vinyl Composition Floor Tile: Products complying with ASTM F 1066, Composition 1 (nonasbestos formulated), and with requirements specified in Vinyl Composition Floor Tile Product shown on drawings.

D. Rubber Wall Base: Products complying with FS SS-W-40, Type I, and with requirements specified in the Rubber Wall Base Product shown on the drawings.

E. Rubber Accessories: Products complying with requirements shown on the drawings.

F. Concrete Slab Primer: Nonstaining type recommended by flooring manufacturer.

G. Trowelable Underlayments and Patching Compounds: portland-cement-based formulation provided or approved by tile manufacturer for applications indicated.

H. Adhesives (Cements): Water-resistant type recommended by tile manufacturer to suit resilient floor tile products and substrate conditions indicated.

I. Edge Strips: Vinyl of width shown, of height required to protect exposed edge of tiles, and in maximum available lengths to minimize running joints.

1.3 EXECUTION

A. Examine areas where installation of tiles will occur, with Installer present, to verify that substrates and conditions are satisfactory for tile installation and comply with tile manufacturer's requirements.

1. Concrete Subfloors: Verify that concrete slabs comply with ASTM F 710 before beginning installation:

2. For wood subfloors verify that underlayment surface is free of surface irregularities and substances with potential to interfere with adhesive bond, show through surface, or stain tile.

3. Proceed with instillation only after substrate passes testing according to floor tile manufacturer's written recommendation.

B. Preparation: Comply with manufacturer's installation specifications to prepare substrates indicated to receive tile.

C. Installation: Comply with tile manufacturer's installation directions and other requirements indicated.

1. Lay out tiles from center marks established with principal walls, discounting minor offsets, so tile widths at opposite edges of room are equal to one another and are not less than one-half of a tile.

2. Match tiles for color and pattern by selecting tiles from cartons in same sequence as manufactured and packaged.

a. Lay tiles with grain running in one direction.

b. Lay tiles in basket weave pattern with grain direction alternating between adjacent tiles.

c. Lay tiles in pattern with respect to location of colors, patterns, and sizes as indicated on Drawings.

3. Where demountable partitions and other items are indicated for installing on top of finished tile floor, install tile before these items are installed.

D. Install metal edge strips where indicated, using countersunk stainless steel anchors.

E. Cleaning:

1. Clean resilient tile floors after installation and 4 days prior to date scheduled for inspections intended to establish date of Substantial Completion.

2.Apply protective polish according to floor tile manufacturer's directions.

3. Comply with manufacturer's written instructions for cleaning, protecting and polishing floor tile.

END OF SECTION 09660

SECTION 09720 - WALL COVERING

1.1 GENERAL

If at any time during the installation a product or installation issue should be discovered - immediately contact your distributor or dealer for further directions, additional instructions and/or resolution to address issue before proceeding. After installing the first 3 strips of any wallcovering immediately confirm quality. Once again, make sure the product is correct, that there are no quality or product issues with the wallcovering. Should a quality issue or question arise, please call the Designtex installation HOTLINE at 1-800-797-4949, Option 1, Ext. 8349 between the hours of 8 a.m to 5 p.m EST. Designtex will not take responsibility for any quality issues raised after the first 3 strips are cut and installed.

Before installing any wallcovering, verify compliance and acceptable conditions, for any moisture problems that could have an effect on mold and mildew growth after the wallcovering is installed. Do not install any wallcovering if the walls appear to have any moisture damage or if the building appears to have moisture infiltration problems. If you are uncertain if moisture problems are present, contact the manufacturer and general contractor for the standard of care and best application or finish for that area and that design of a building. Designtex will not take responsibility for any quality issues if moisture problems are not addressed before installation. You should also refer to the Mold Handbook authored by the Wallcovering Association with respect to considerations for specifying vinyl wallcovering in various climates and for various building designs. The handbook can be located at: http://www.wallcoverings.org/MOLDbook.pdf

A. Before Installing:

1. Inspect each piece upon receipt. Immediately make claim with the carrier if the pieces are damaged.

2. Check to see that you have received what was ordered and that the rolls all have the same style and run numbers.

3. If the material is to be stored, make sure the pieces are kept in a temperature controlled, dry area, and not crushed.

B. Surface Preparation:

1.Site conditions: For best results, finished lighting should be in place at the time of wall preparation and wallcovering installation

2. Acceptable hanging surfaces must be clean, smooth, dry and structurally intact.

3. Any mildew must be removed from the walls and surfaces treated to inhibit further mildew growth. In humid, mold, and mildew prone areas use Zinsser Plus Mildew Proof Commercial Wallcovering System or manufacturer approved equal that offers protection against the growth of mildew. More extensive moisture problems may require additional steps before installation.

4. Do not install wallcovering unless temperature above 55 degrees Fahrenheit is maintained.

5. Prior to priming, seal damaged drywall facing paper prior to skim coating.

6. Note: Crayon, pen markers, ink, screw and nail heads, and heavy pencil marks, and stains need to be sealed with a stain-killer prior to priming.

7. For all new or refinished wall surfaces, a water-based wallcovering primer should be applied to surface before application of wallcovering. Use a wallcovering primer that dries to a solid color to help conceal drywall joints

8. Where there is a color contrast between the wall surface and the wallcovering, it is always best to tint the primer to match the color of the wallcovering.

9. Glossy and non-porous surfaces should be primed with a coat of an adhesion promoting primer such as R-35 prior to installation of wallcovering.

10. Verify and comply with all manufacturer's installation instructions and specifications.

C. Adhesive Application:

1. Provide the use of a good quality heavy duty "clear" vinyl adhesive as made by Zinsser and Roman as recommended by wallcovering manufacturer. It's always advantageous to use a primer and adhesive from the same manufacturer.

2. Do not dilute adhesive.

3. In mildew prone environments, use of a mildew inhibitor is recommended. More extensive moisture problems may require additional steps before installation.

4. New vapor permeable primers and adhesives are now available to wallcovering installers, which could reduce the risk of mold for all types of wallcoverings, versus the use of traditional primers and adhesives. Verify recommended product with manufacturer of wallcovering. Examples of such newly available permeable mildew systems are Zinsser's V.P. Vapor Permeable ™ System, specifically Shieldz V.P. Primer and Sure Grip V.P. Primer such as described in their attached flyer (www.zinsser.com tel. 732 469-8100) and Roman Decorating Products' Ultra™ Plus Mildew System, specifically Ultra™ Plus Primer and Ultra™ Plus Adhesive (www.romandecoratingproducts.com tel.800 488-6117)

D. Wallcovering Installation: Verify and comply with manufacturer's current written installation instructions, and as a minimum:

1. Determine whether the pattern match is random, straight across, or drop match. Measure the wall height, allowing for pattern match, add 4 inches, and then cut the wallcovering. It will overlap onto the ceiling and the base approximately 2 inches

2. Cut rolls in sequential order starting with the highest number working down to the lowest number. Make certain that the run numbers are separated at break points such as corners. Number panels and headers as they are cut from the roll and apply to the wall in the same sequence.

3. Any wallcovering design that does not have specific direction or horizontal match, could be installed by reversing alternate strips to ensure color uniformity at the seams. If product appears shaded or paneled after the first 3 strips, we strongly suggest reversing alternate strips.

4. If the wallcovering is table trimmed, use of a straight-edge and a razor is recommended. A fresh blade should be used on each cut. "Snap off" cutting tools are not recommended.

5. The "overlap and double cut" method is an alternative method of installation with many fabric backed vinyl wallcoverings.

6. All wallcoverings should be trimmed 2" to 4" on each edge to ensure best appearance.

7. If paste does get on the vinyl wallcovering, clean it off immediately with warm water and blot dry with clean lint free towel. Use a soft bristle brush to clean if necessary. Change this water frequently. Be certain to wash the ceiling and the baseboard to remove any paste residue. Do not leave any overlap at the seams since vinyl will not adhere to itself. Seams should be vertical, have a tight fit, and free from air and paste bubbles. Seams should not be located closer than 6" to corners.

8. Avoid burnishing the face of the material. Use a wallcovering brush or a plastic scraper to smooth the wallcovering onto the wall.

9. Use a seam roller to flatten the edges at the seams, ceilings and baseboards. Use light pressure. Do not press hard enough to remove the adhesive from underneath the wallcovering.

10. After installing the first 3 strips of any wallcovering immediately conform quality of product. Once again, make sure the product is correct, that there are no quality or product issues with the wallcovering. Should a quality issue or question arise please call our installation HOTLINE at 1-800-797-4949, Option 1, Ext. 8349 between the hours of 8 a.m to 5 p.m EST. Designtex will not take responsibility for any quality issues raised after the first 3 strips are cut and installed.

11. If any of the above conflicts with manufacturer's written instructions, manufacturer written instruction shall take precedence.

12. It is the responsibility of the installer to verify and comply with manufacturer's installation instructions and provide a complete and acceptable finished product.

END OF SECTION 09720

SECTION 09900 - PAINTING

1.1 GENERAL

A. This Section includes surface preparation, painting, and finishing of exposed interior and exterior items and surfaces.

1. Surface preparation, priming, and finish coats specified are in addition to shop-priming and surface treatments.

B. Paint exposed surfaces whether or not colors are designated in the schedules, except where a surface or material is specifically indicated not to be painted or is to remain natural. Where an item or surface is not specifically mentioned, paint the same as similar adjacent materials or surfaces. If color or finish is not designated, the Architect will select from standard colors or finishes available.

C. Painting is not required on prefinished items, finished metal surfaces, concealed surfaces, operating parts, and labels.

1. Labels: Do not paint over Underwriters Laboratories, Factory Mutual, or other code-required labels or equipment name, identification, performance rating, or nomenclature plates.

D. Submittals: Submit the following:

1. Product data for each paint system specified, including block fillers and primers.

a. Provide the manufacturer's technical information including label analysis and instructions for handling, storage, and application of each material proposed for use.

b. List each material and cross-reference the specific coating, finish system, and application. Identify each material by the manufacturer's catalog number and general classification.

c. Certification by the manufacturer that products supplied comply with local regulations controlling use of volatile organic compounds (VOCs).

2. Samples for initial color selection in the form of manufacturer's color charts. After color selection, the Architect will furnish color chips for surfaces to be coated.

3. Samples for Verification Purposes: Provide samples of each color and material to be applied, with texture to simulate actual conditions, on actual samples of the actual substrate. Provide stepped samples, defining each separate coat, including block fillers and primers. Use actual colors when preparing samples for review. Resubmit until required sheen, color, and texture are achieved.

a. Submit samples on the following substrates for the Architect's review of color and texture only:

1) Concrete Masonry: Two 4-by-8-inch samples of masonry, with mortar joint in the center, for each finish and color.

2) Painted Wood: Two 12-inch-square samples of each color and material on hardboard.

3) Ferrous Metal: Two 4-inch-square samples of flat metal and two 8-inch-long samples of solid metal for each color and finish.

E. Applicator Qualifications: Engage an experienced applicator who has completed painting system applications similar in material and extent to those indicated for the Project that have resulted in a construction record of successful in-service performance.

F. Single-Source Responsibility: Provide primers and undercoat paint produced by the same manufacturer as the finish coats.

G. Field Samples: On wall surfaces and other exterior and interior components, duplicate finishes of prepared samples. Provide full-coat finish samples on at least 100sq. ft. of surface.

1. Final acceptance of colors will be from job-applied samples.

2. The Owner will select one room or surface to represent surfaces and conditions for each type of coating and substrate to be painted. Apply coatings in this room or surface according to the schedule or as specified.

H. Deliver materials to the job site in the manufacturer's original, unopened packages and containers bearing manufacturer's name and label with the product trade name manufacturer's instructions.

I. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 deg F (7 deg C). Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily.

J. Project Conditions: Do not apply paint in snow, rain, fog, or mist, or when the relative humidity exceeds 85 percent, or at temperatures less than 5 deg F (3 deg C) above the dew point, or to damp or wet surfaces.

K. Apply water-based paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 50 deg F (10 deg C) and 90 deg F (32 deg C).

L. Apply solvent-thinned paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 45 deg F (7 deg C) and 95 deg F (35 deg C).

1.2 PRODUCTS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to, the following:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to:

a. Benjamin Moore & Co.

b. Sherwin-Williams Company

B. 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.

C. 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.

1. Proprietary Names: Use of manufacturer's proprietary product names to designate colors or 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.

D. Colors: Provide color selections made by the Architect from the manufacturer's full range of standard colors.

1.3 EXECUTION

A. Examination: Examine substrates and conditions under which painting will be performed for compliance with requirements. Do not begin application until unsatisfactory conditions have been corrected.

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.

1. Notify the Architect about anticipated problems using the materials specified over substrates primed by others.

C. 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.

D. 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 fall on wet, newly painted surfaces.

E. 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. Cementitious Materials: Prepare cementitious surfaces to be painted. Remove efflorescence, chalk, dust, dirt, grease, oils, and release agents. Roughen to remove glaze. If hardeners or sealers have been used to improve curing, use mechanical methods of surface preparation.

a. Use abrasive blast-cleaning methods if recommended by the paint manufacturer.

b. Determine alkalinity and moisture content of surfaces. Do not paint surfaces where moisture content exceeds that permitted in manufacturer's printed directions.

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.

4. Ferrous Metals: Clean ungalvanized ferrous-metal surfaces that have not been shop-coated; remove oil, grease, dirt, loose mill scale, and other foreign substances. Use solvent or mechanical cleaning methods that comply with recommendations of the Steel Structures Painting Council.

a. Touch up bare areas and shop-applied prime coats that have been damaged. Wire-brush, clean with solvents and touch up with the same primer as the shop coat.

5. Galvanized Surfaces: Clean galvanized surfaces with nonpetroleum-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.

F. Materials Preparation: Carefully mix and prepare paint materials according to manufacturer's directions.

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.

G. 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. Paint colors, surface treatments, and finishes are indicated in the schedules.

2. Provide finish coats that are compatible with primers used.

3. 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. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color if topcoat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.

4. 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.

5. 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.

6. Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces. Paint surfaces behind permanently fixed equipment or furniture as indicated on drawings.

7. Paint back sides of access panels and removable or hinged covers to match exposed surfaces.

H. 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.

I. Application Procedures: Apply paints and coatings by brush, roller, spray or other applicators according to manufacturer's directions.

1. Brushes: Use brushes best suited for the material applied.

2. Rollers: Use rollers of carpet, velvet back, or high-pile sheep's wool as recommended by the manufacturer for the material and texture required.

3. Spray Equipment: Use airless spray equipment with orifice size as recommended for the material and texture required.

J. 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.

K. Block Fillers: Apply block fillers at a rate to ensure complete coverage with pores filled.

L. Prime Coats: Before applying finish coats, apply a prime coat to material to be painted or finished that has not been prime-coated by others. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to ensure a finish coat with no burn-through or other defects due to insufficient sealing.

M. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work not complying with specified requirements.

N. Cleanup: At the end of each work day, remove empty cans, rags, rubbish, and other discarded paint materials from the site.

1. After completing painting, clean glass and paint-spattered surfaces. Remove spattered paint by washing and scraping. Be careful not to scratch or damage adjacent finished surfaces.

O. Protection: Protect work of other trades, whether being painted or not, against damage by painting. Correct damage by cleaning, repairing or replacing, and repainting, as acceptable to Architect.

P. Provide "Wet Paint" signs to protect newly painted finishes. Remove temporary protective wrappings provided by others to protect their work after completing painting operations.

1. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

Q. Paint Schedule: Provide the following paint systems (or approved equal) for the various substrates indicated:

1. Exterior Surfaces

a. Ferrous & Non-Ferrous Metals (doors):

1st coat: IronClad Latex Low Lustre Metal & Wood Enamel (363)

2nd coat: Moore's IMC DTM Acrylic Semi-Gloss (M29)

3rd coat: Moore's IMC DTM Acrylic Semi-Gloss (M29)

b. Galvanized Metal:

1st coat IronClad Latex Low Lustre Metal & Wood Enamel (363)

2nd coat: Moore's IMC DTM Acrylic Semi-Gloss (M29)

3rd coat: Moore's IMC DTM Acrylic Semi-Gloss (M29)

c. Concrete:

1st coat: Moorcraft Super Craft Latex Block Filler (285)

2nd coat: MoorGard Latex House Paint (103)

3rd coat: MoorGard Latex House Paint (103)

d. Stucco:

1st coat: Moore's Acrylic Masonry Sealer (066)

2nd coat: MoorGard Latex House Paint (103)

3rd coat: MoorGard Latex House Paint (103)

e.Unit Masonry (Concrete block):

1st coat: Moorcraft Super Craft Latex Block Filler (285)

2nd coat: MoorGard Latex House Paint (103)

3rd coat: MoorGard Latex House Paint (103)

2. Interior Surfaces: (refer to finish schedule on sheet A-4.1)

a. Wood (painted):

1st coat Moorcraft Super Spec Latex Enamel Undercoater & Primer Sealer (253)

2nd coat Moorcraft Super Spec Latex Semi-Gloss Enamel (276)

3rd coat: Moorcraft Super Spec LatexSemi-Gloss Enamel (276)

b. Drywall:

1st coat Moorcraft Super Spec Latex Enamel Undercoater & Primer Sealer (253)

2nd coat Moorcraft Super Spec Latex Pearl Finish (277)

3rd coat Moorcraft Super Spec Latex Pearl Finish (277)

c. Concrete (concrete/ concrete block walls):

1st coat Moorcraft Super Craft Latex Block Filler (285)

2nd coat Moorcraft Super Spec Latex Pearl Finish (277)

3rd coat Moorcraft Super Spec Latex Pearl Finish (277)

d. Metals (hand rails, doors, frames & grills):

1st coat IronClad Latex Low Lustre Metal and Wood Enamel (363)

2nd coat Impervex Latex High Gloss Metal and Wood Enamel (309)

3rd coat Impervex Latex High Gloss Metal and Wood Enamel (309)

e. Metals (columns, joists):

1st coat IronClad Latex Low Lustre Metal and Wood Enamel (363)

2nd coat Impervex Latex High Gloss Metal and Wood Enamel (309)

3rd coat Impervex Latex High Gloss Metal and Wood Enamel (309)

f. Ceilings (drywall):

1st coat Moorcraft Super Spec Latex EnamelUndercoater & Primer Sealer (253)

2nd coat Moore's Muresco Ceiling Paint (258)

3rd coat Moore's Muresco Ceiling Paint (258)

g. Wood Doors (painted):

1st coat IronClad Latex Low Lustre Metal and Wood Enamel (363)

2nd coat IronClad Latex Low Lustre Metal and Wood Enamel (363)

Insert schedules for exterior and interior paint systems as required. See the Basic Section for examples of various systems.

R. Clean-up: During the progress of the work, remove from site, discarded paint materials, rubbish, cans and rags at the end of each work day. Upon completion of painting work, clean window glass and other damaged paint-spattered surfaces. Remove spattered paint and clean damaged finish surfaces. Touch-up and restore all damaged or defaced painted surfaces after completion of work of other trades.

SECTION 10260 - SPECIALTY WALL PANELS

A. Provide surface preparation of substrate wall surfaces and installation of wall protection elements, where indicated on the drawings, as specified herein and as needed for a complete and proper installation. Comply with manufacturer's installation instructions, recommendations, procedures and installation sequence.

B. FRP Panels:

0.090" thick x 4' wide "Marlite FRP", #P-100 White or equal USDA accepted, semi-rigid fiberglass reinforced plastic paneling (ASTM D5319). If required per local codes, use Marlite #P-100 FR White, Class A: UL classified flame-spread less than 20, fuel contributed 0, and smoke developed less than 200, per ASTM E-84.

C. Panel Fitting:

Position panels with 1/8" gap between each panel and division bar of moldings to allow for normal expansion and contraction and extend 6 inches above ceiling line. Allow not less than 1/8" gap around pipes, electrical fittings and other projections. Use carbide-tipped power saws to cut panels or other methods as recommended by manufacturer. Prefit each panel before installing.

D. Install panels by using Marlite #C-375 adhesive complying with ASTM G557, (or Marlite #C551 adhesives where solvent vapors cannot be adequately ventilated) to back of panels for 100% coverage, with a notched trowel. Before adhesive skins over, set panels in position and press against wall. Comply with manufacturer installation instructions as required to flash off solvents. Apply adequate pressure to make full contact between panel and wall.

E. Panel Moldings:

Provide one-piece matching trim and panel moldings at all joints between panels and at top and bottom edges of panels. Install moldings with continuous bead of Marlite Silicone Sealant MS-250 during installation of panels. Seal joints between moldings and between molding and adjacent finish material. Remove excess sealant immediately.

F. Stainless Steel Wall Panels: 18 and 24 gauge, as scheduled on the drawings, #4 Brushed Finish. Install panels in sheets as large as possible. All flush and corner joints to be lapped. Break all corners and edges to straight true lines. Exposed fasteners to be stainless steel.

G. Clean all panels and protect from damage. Refer to manufacturer's specific cleaning recommendations. Do not use abrasive cleaners.

SECTION 10522 - FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES

1.1 GENERAL

A. Submittals: Submit the following:

1. Product Data: Include rough-in dimensions, details showing mounting methods, relationships of box and trim to surrounding construction, door hardware, cabinet type and materials, trim style, door construction, panel style, and materials.

B. Coordination: Verify that cabinets are sized to accommodate type and capacity of extinguishers indicated, as well as wall depth requirements may be required.

C. UL-Listed Products: Fire extinguishers shall be UL listed with UL listing mark for type, rating, and classification of extinguisher.

D. FM-Listed Products: Fire extinguishers approved by Factory Mutual Research Corporation for type, rating, and classification of extinguisher with FM marking.

1.2 PRODUCTS

A. Fire Extinguishers: Provide fire extinguishers as recommended by Owner's surety for each cabinet and for other locations required by Owner's surety.

1. Dry Chemical Type: UL-rated 10-B:C, 5-lb nominal capacity, in enameled steel container.

2. Multipurpose Dry Chemical Type: UL-rated minimum 2-A:10-B:C, 2-1/2-lb nominal capacity, in enameled steel container.

B. Mounting Brackets: Provide brackets of sizes required for type and capacity of extinguisher indicated, in plated finish.

C. Cabinet Construction: Box with trim, frame, door, and hardware to suit cabinet type, trim style, and door style indicated. Weld joints and grind smooth. Miter and weld perimeter door frames.

1. Fire-Rated Cabinets: UL listed with UL listing mark with fire-resistance rating of wall where it is installed.

2. Cabinet Type: Suitable for containing the following:

a. Fire extinguisher.

3. Cabinet Mounting: Suitable for the mounting indicated:

a. Recessed: Fully recessed in walls of sufficient depth to suit trim style.

b. Surface-Mounted: Fully exposed and mounted directly on wall.

4. Trim Style: One piece with corners mitered, welded, and ground smooth.

a. Exposed Trim: One-piece combination trim and perimeter door frame overlapping surrounding wall surface with exposed trim face and wall return at outer edge.

1) Square-edge with 1/4- to 5/16-inch backbend depth.

2) Metal: Same metal and finish as door.

D. Door Material and Construction: Manufacturer's standard of material indicated, coordinated with cabinet types and trim styles selected.

1. Enameled Steel: Hollow construction with tubular stiles and rails.

2. Door Glazing: Fully tempered float glass complying with ASTM C 1048, Condition A, Type I, Quality q3, Kind FT, and Class as follows:

a. Class 1 (clear).

3. Identify fire extinguisher in cabinet with FIRE EXTINGUISHER lettering applied to door. Provide lettering to comply with authorities having jurisdiction for letter style, color, size, spacing, and location.

a. Application Process: Silk screen.

E. Identify bracket-mounted extinguishers with FIRE EXTINGUISHER in red letter decals applied to wall surface. Letter size, style, and location to comply with authorities having jurisdiction.

F. Door Style: Manufacturer's standard design.

1. Full-Glass Panel: Float glass, 1/8 inch thick.

G. Door Hardware: Provide self-operating hardware of proper type for cabinet type, trim style, and door material and style indicated. Provide door handle with cam-action latch, or exposed or concealed door pull and friction latch. Provide concealed or continuous-type hinge permitting door to open 180 degrees.

H. Cabinet Finishes: Comply with NAAMM "Metal Finishes Manual." Protect exposed finishes from damage by application of temporary strippable coating prior to shipment.

I. Steel Cabinet Finishes: Surface clean surfaces to remove dirt, oil, grease, and other contaminants that could impair paint bond. Remove mill scale and rust from uncoated steel.

1. Baked-Enamel Finish: Immediately after cleaning and pretreatment, apply a two-coat baked-enamel finish consisting of prime coat and thermosetting topcoat. Comply with paint manufacturer's instructions for application and baking to achieve a minimum dry film thickness of 2.0 mils.

a. Color and Gloss: Manufacturer's standard designations. Paint the following:

1) Exterior of cabinet except for surfaces indicated to receive another finish

2) Interior of cabinet.

1.3 EXECUTION

A. Installation: Follow manufacturer's printed instructions.

B. Install at heights indicated, or if not indicated, at heights to comply with applicable regulations of governing authorities.

1. Prepare wall recesses for cabinets as required by type and size of cabinet and style of trim and to comply with manufacturer's instructions.

2. Fasten mounting brackets and fire extinguisher cabinets to structure, square and plumb.

C. Comply with NFPA 10 for extinguisher placement.

D. Fire-Rated Fire Protection Cabinets, where applicable, comply with ASTM E814 for fire resistance rating of walls where they are installed.

SECTION 10800 - TOILET AND BATH ACCESSORIES

1.1 GENERAL

A. Submittals: Manufacturer's product data for each toilet accessory item specified, including details of construction relative to materials, dimensions, gages, profiles, mounting methods, specified options, and finishes.

1.2 PRODUCTS

A. Manufacturers: Subject to compliance with requirements, provide toilet accessories by one of the following:

1. American Specialties, Inc.

2. Bobrick Washroom Equipment, Inc.

3. McKinney/Parker.

B. Materials, General: Fabricate toilet accessory items from the following materials and according to requirements specified for individual accessory items:

1. Stainless Steel: AISI Type 302/304, with polished No. 4 finish, 0.034-inch (22-gage) minimum thickness, unless otherwise indicated.

2. Sheet Steel: Cold-rolled, commercial quality ASTM A1008/A1008M, 0.04-inch (20-gage) minimum thickness, unless otherwise indicated. Surface preparation and metal pretreatment as required for applied finish.

3. Galvanized Steel Sheet: ASTM A653/A653M, G60.

4. Mirror Glass: Nominal 6.0-mm (0.25-inch) thick plate glass conforming to ASTM C1503, Type I, Class 1, Quality q2, and with silvering, electro-plated copper coating, and protective organic coating.

5. Galvanized Steel Mounting Devices: ASTM A153, hot-dip galvanized after fabrication.

6. Fasteners: Screws, bolts, and other devices of same material as accessory unit, or of galvanized steel where concealed.

7. Keys: Provide universal keys for access to toilet accessory units requiring internal access for servicing, resupply, etc. Provide a minimum of six keys to Owner's representative.

C. Surface-Mounted Roll Paper Towel Dispensers: Provided by Ulta and installed by G.C. Fabricate of cast aluminum with satin finish.

D. Single Roll Toilet Tissue Dispenser: Provided by Ulta and installed by G.C. Size to accommodate core type tissue to 5" diameter roll.

E. Stainless Steel Grab Bars: Provide grab bars with wall thickness not less than .050 inch (18 gage) and as follows:

1. Mounting: Concealed, manufacturer's standard flanges and anchorages.

2. Clearance: 1-1/2-inch clearance between wall surface and inside face of bar.

3. Gripping Surfaces: Manufacturer's standard nonslip texture.

4. Heavy-Duty Size: Outside diameter of 1-1/2 inches.

F. Stainless Steel Angle-Framed Mirror Units: Fabricate frame with angle shapes not less than 0.05 inch (18 gage), with square corners mitered, welded, and ground smooth. Provide in No. 4 satin polished finish.

G. Fabrication: Only a maximum 1-1/2-inch diameter, unobtrusive stamped manufacturer logo, as approved by Architect, is permitted on exposed face of toilet or bath accessory units. On either interior surface not exposed to view or back surface, provide additional identification by means of either a waterproof, printed label or a stamped nameplate, indicating manufacturer's name and product model number.

H. Surface-Mounted Toilet Accessories, General: Except where otherwise indicated, fabricate units with tight seams and joints, exposed edges rolled. Hang doors or access panels with continuous stainless steel piano hinge. Provide concealed anchorage wherever possible.

1.3 EXECUTION

A. Installation: Install toilet accessory units according to manufacturers' printed installation instructions, using fasteners appropriate to substrate as recommended by unit manufacturer. Install units plumb and level, firmly anchored in locations and at heights indicated.

and level, firmly anchored in locations and at heights indicated. Verify and comply with A.D.A.A.G. (American's with Disabilities Act Accessibility Guidelines), accessibility guidelines and local governing authorities having jurisdiction.

1. Secure mirrors to walls in concealed, tamperproof manner with special hangers, toggle bolts, or screws. Set units plumb, level, and square at locations indicated, in accordance with manufacturer's instructions for type of substrate involved.

2. Adjust toilet accessories for proper operation and verify that mechanisms function smoothly. Replace damaged or defective items.

3. Clean and polish all exposed surfaces strictly according to manufacturer's recommendations after removing temporary labels and protective coatings.

SECTION 11400 - EQUIPMENT & FURNISHING INSTALLATION WORK INCLUDED:

A. Install Owner supplied equipment and furnishings, where shown on the drawings, as specified herein, and as needed for a complete and proper installation. Coordinate for delivery, receive at the site, unload, protect, set-in-place and coordinate final connections.

B. Related Work: Plumbing and electrical work required in connection with the retail equipment is included in other sections of these specifications or as specified on plumbing and mechanical drawings.

C. Quality Assurance: In addition to complying with requirements of governmental agencies having jurisdiction, installation of all retail equipment shall comply with: Underwriters Laboratory (UL) for items with electrical components ANSI standards for vacuum breakers and air gaps National Fire Prevention Association (NFPA) National Electrical Manufacturers Association (NEMA)

D. Coordination: Verify and coordinate rough-in locations of electrical and plumbing connections. Examine and inspect rough-in services and installation of floor, ceiling or other conditions under which the equipment is to be installed. Verify and coordinate all voltage requirements of owner provided equipment as compatible with building system. Verify that dimensions of such items are acceptable before installation of the work. Do not proceed until unsatisfactory conditions have been corrected.

E. Installation: Set each item of non-mobile and portable equipment securely in place, leveled and adjusted to correct height. Anchor to supporting substrate where indicated and where required for sustained operation and use without shifting or dislocation. Conceal anchorages where possible.

F. Adjust and Clean: Test each item of operational equipment to determine that it is operating properly. Coordinate repair or replacement of equipment found to be defective with the equipment supplier. Remove protective coverings, if any and clean items, ready for use.

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