
USACE / NAVFAC / AFCEA / NASA UFGS-09 72 00 (July 2006)

Preparing Activity: USACE Superseding
UFGS-09 72 00 (April 2006)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated April 2009

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07/06

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SECTION 09 72 00

WALL COVERINGS 07/06

NOTE: This guide specification covers the requirements for wall coverings over gypsum wallboard, plaster, concrete, or masonry.

Edit this guide specification for project specific requirements by adding, deleting, or revising text. For bracketed items, choose applicable items(s) or insert appropriate information.

Remove information and requirements not required in respective project, whether or not brackets are present.

Comments and suggestions on this guide specification are welcome and should be directed to the technical proponent of the specification. A listing of technical proponents, including their organization designation and telephone number, is on the Internet.

Recommended changes to a UFGS should be submitted as a Criteria Change Request (CCR).

PART 1 GENERAL

NOTE: On the drawings, show:

1. Location and extent of work including dimensions of surfaces to receive wall covering.
2. Profile of wainscot cap, when required.

1.1 REFERENCES

NOTE: This paragraph is used to list the publications cited in the text of the guide specification. The publications are referred to in

the text by basic designation only and listed in this paragraph by organization, designation, date, and title.

Use the Reference Wizard's Check Reference feature when you add a RID outside of the Section's Reference Article to automatically place the reference in the Reference Article. Also use the Reference Wizard's Check Reference feature to update the issue dates.

References not used in the text will automatically be deleted from this section of the project specification when you choose to reconcile references in the publish print process.

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM INTERNATIONAL (ASTM)

- | | |
|-------------|---|
| ASTM D 1308 | (2002; R 2007) Effect of Household Chemicals on Clear and Pigmented Organic Finishes |
| ASTM D 751 | (2006) Coated Fabrics |
| ASTM E 84 | (2009) Standard Test Method for Surface Burning Characteristics of Building Materials |

CHEMICAL FABRICS & FILM ASSOCIATION (CFFA)

- | | |
|--------------|---|
| CFFA-W-101-D | (2002) Vinyl Coated Fabric Wallcovering |
|--------------|---|

GYPSUM ASSOCIATION (GA)

- | | |
|--------|--|
| GA 214 | (2007) Recommended Levels of Gypsum Board Finish |
|--------|--|

INTERNATIONAL CODE COUNCIL (ICC)

- | | |
|---------|---|
| ICC IBC | (2006; Errata 2006; Errata 2007; Supplement 2007; Errata 2007) International Building Code |
|---------|---|

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

- | | |
|----------|---|
| NFPA 265 | (2006) Fire Tests for Evaluating Room Fire Growth Contribution of Textile Coverings on Full Height Panels and Walls |
| NFPA 286 | (2006) Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth |

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)

SCAQMD Rule 1168

(1989; R 2005) Adhesive and Sealant Applications

U.S. GENERAL SERVICES ADMINISTRATION (GSA)

FS CCC-W-408

(Rev C) Wallcovering, Vinyl Coated

1.2 SUBMITTALS

NOTE: Review submittal description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list to reflect only the submittals required for the project. Submittals should be kept to the minimum required for adequate quality control.

A "G" following a submittal item indicates that the submittal requires Government approval. Some submittals are already marked with a "G". Only delete an existing "G" if the submittal item is not complex and can be reviewed through the Contractor's Quality Control system. Only add a "G" if the submittal is sufficiently important or complex in context of the project.

For submittals requiring Government approval on Army projects, a code of up to three characters within the submittal tags may be used following the "G" designation to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy, Air Force, and NASA projects.

Choose the first bracketed item for Navy, Air Force and NASA projects, or choose the second bracketed item for Army projects.

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for [Contractor Quality Control approval.] [information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government.] Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-03 Product Data

Wall Coverings and Accessories[; G][; G, [_____]]

Wall covering manufacturer's descriptive data, documentation stating physical characteristics, flame resistance, mildew and germicidal characteristics. Corner guard and wainscot cap

manufacturer's descriptive data.

Primer and Adhesive

Manufacturer's descriptive data, documentation stating physical characteristics, mildew and germicidal characteristics. Material Safety Data Sheets (MSDS) for all primers and adhesives to the Contracting Officer. Highlight VOC emissions.

Vinyl Wall Covering

Manufacturer's catalog data.

SD-04 Samples

Wall Coverings and Accessories[; G][; G, [____]]
Wall Coverings[; G][; G, [____]]

[Three] [____] samples of each indicated type, pattern, and color of wall covering. Provide minimum 125 by 175 mm 5 by 7 inch samples of wall covering to show pattern repeat of sufficient size. [Three] [____] samples of each indicated type corner guard and wainscot cap; provide samples a minimum of 75 mm 3 inch long.

[Three][____] samples of each indicated type of frame for presentation dry erase wall covering. Provide samples a minimum of 75 mm 3 inch long.

Vinyl Wall Covering Mockup Panels. After vinyl wall covering samples are approved, and prior to starting installation, provide a minimum 2430 by 2430 mm 8 by 8 foot vinyl wall covering mock-up for each color and type of vinyl wall covering, using the proposed primers and adhesives and actual substrate materials. Once approved, use the mock-up samples as a standard of workmanship for installation within the facility. Written notification to the Contracting Officer at least 48 hours prior to mock-up installation.

Wall Covering: Three samples, 3 meter yards long by the width specified, of each color and grain to be installed in the work, as required to illustrate material weight, color, shade, decorative design, and embossing when required.

SD-07 Certificates

Wall Coverings and Accessories

Manufacturer's statement attesting that the product furnished meets or exceeds specification requirements. Date the statement after the award of the contract, state Contractor's name and address, name the project and location, and list the requirements being certified. Certificates for Vinyl Wall Covering including the following:

- a. Certified laboratory test reports of the physical properties for vinyl wall covering, as specified.
- b. Certificates of Compliance for UL fire hazard classification listing, as specified.

c. Certificates of Compliance for contact adhesive.

SD-08 Manufacturer's Instructions

Wall Coverings and Accessories

Preprinted installation instructions for wall covering and accessories, adhesives and primers. Include preparation of the substrate within the instructions.

SD-10 Operation and Maintenance Data

Vinyl Wall Covering[; G][; G, [____]]

Preventative maintenance and inspection for Vinyl Wall Covering showing the manufacturer's recommended cleaning materials and application methods, including precautions in the use of cleaning materials that may be detrimental to the wall covering surface when improperly applied.

1.3 DELIVERY, STORAGE, AND HANDLING

Deliver the material to the site in manufacturer's original wrappings and packages and clearly label with the manufacturer's name, brand name, pattern and color name and number, dye lot number, size, and other related information. Store in a safe, dry, clean, and well-ventilated area at temperatures not less than 10 degrees C 50 degrees F and within a relative humidity range of 30 to 60 percent. Store wall covering material in a flat position and protected from damage, soiling, and moisture. Do not open containers until needed for installation, unless verification inspection is required.

1.4 ENVIRONMENTAL REQUIREMENTS

Comply with wall covering manufacturer's printed installation instructions for minimum temperature of area to receive requirements for conditioning adhesive and wall covering. Provide a minimum 10 degrees C 50 degrees F area temperature, 72 hours prior to installation, during installation, and until the adhesive dries. Observe ventilation and safety procedures.

1.5 WARRANTY

Provide manufacturer's standard performance guarantees or warranties that extend beyond a one-year period.

1.6 EXTRA MATERIALS

NOTE: Extra stock of wall covering may be required. If not, delete this paragraph. Extra stock should be based on anticipated usage. In the absence of experience data, a minimum of one linear meter for each 100 lineal meters (one linear foot for each 100 linear feet) installed is suggested.

Provide one linear meter foot of full-width wall covering of each pattern and color for each [100] [____] linear meters [100] [____] linear feet of

wall covering installed[, excluding presentation dry erase wall covering]. Provide the same manufacturer, type, pattern, color, and lot number of extra stock as the installed wall covering. Provide full rolls, packed for storage and marked with content, manufacturer's name, pattern and color name and number and dye lot number. Leave extra stock at the site at a location as directed by the Contracting Officer.

PART 2 PRODUCTS

2.1 WALL COVERINGS

NOTE: If more than one wall covering type is required and specifications vary, a separate paragraph Vinyl Wall covering Type, Textile Wall covering Type, and/or Wall covering Border Type will be used for each wall covering type. Each wall covering type will be designated with a letter or number symbol. Use the same symbols to key wall covering types to locations on the drawings and Section 09 06 90 COLOR SCHEDULE. Delete reference to type symbol if not used.

As per NFPA 101 for sprinklered buildings, interior walls and ceiling finishes tested in accordance with NFPA 286 shall be permitted to be used in lieu of that required to be Class A in accordance with NFPA 255. NFPA 255 is also known as ASTM E 84.

NOTE: In accordance with NFPA 101, the use of textile materials on walls and ceilings will comply with one of the following conditions:

- a. Textile materials having a Class A rating will be permitted on the walls or ceilings of rooms or areas protected by an approved automatic sprinkler system.
- b. Textile materials having a Class A rating will be permitted on partitions that do not exceed 3/4 of the floor-to-ceiling height or do not exceed 2440 mm (8 feet) in height whichever is less.
- c. Textile materials having a Class A rating will be permitted to extend not more than 1200 mm (4 feet) above the finished floor on ceiling-height walls and ceiling-height partitions.
- d. Textile materials will be permitted on walls and partitions where tested in accordance with NFPA 265, Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile Wall Coverings. (ICC IBC is equivalent to NFPA 265.)

Provide Wall coverings and accessories material designed specifically for the specified use. Furnish vinyl wall covering and borders with a mercury, cadmium, lead, and chromium free base. Protect wall coverings with bactericides and mildew inhibitors against microbiological and mildew growth.

2.1.1.1 Vinyl Wall Covering

Provide vinyl wall covering with an integrally pigmented, opaque vinyl film, laminated to, or combined with, a fabric backing.

NOTE: Delete the following paragraphs when medium-duty type wall covering is not required. Medium-duty type wall covering is suitable for use in vestibules, corridors, lounges, offices, and other areas where there is average traffic and scuffing, and is available in a wide range of colors and grains. Mildew-resistant fabric backing is standard treatment with several wall covering manufacturers.

Provide a medium-duty type wall covering, finish as specified, conforming to FS CCC-W-408, Type II, and the following modifications:

Supporting material for wall covering may be mildew-resistant treated at the option of the wall covering manufacturer.

Provide the following physical properties:

| <u>REQUIREMENT</u> | <u>TEST METHOD</u> | <u>VALUE</u> |
|---|-------------------------|---|
| Coating weight, exclusive of fabric backing | CFFA-W-101-D, Test 5041 | Not less than 240 gram 7 ounces per square meter yard |
| Adhesion of coating to fabric backing | ASTM D 751 | Not less than 13 newton 3 pounds pull per 25 mm inch of width |

NOTE: Delete the following paragraphs when heavy-duty type wall covering is not required. Heavy-duty type vinyl wall covering is recommended for use in areas exposed to damage by moving equipment and is available in several colors and a leather-like grain.

Provide a heavy duty type wall covering, finish as specified, conforming to FS CCC-W-408, Type III, and the following modifications:

Supporting material for wall covering may be mildew-resistant treated at the option of the wall covering manufacturer.

Provide the following physical properties:

| <u>REQUIREMENT</u> | <u>TEST METHOD</u> | <u>VALUE</u> |
|---|-------------------------|---|
| Coating weight, exclusive of fabric backing | CFFA-W-101-D, Test 5041 | Not less than 407 gram 12 ounces per square |

| <u>REQUIREMENT</u> | <u>TEST METHOD</u> | <u>VALUE</u> meter yard |
|--|--------------------|--|
| Adhesion of coating to fabric backing | ASTM D 751 | Not less than 13 newton 3 pounds pull per 25 mm inch of width |

NOTE: Delete the following paragraphs when stain-resistant vinyl wall covering is not required. Polyvinyl-fluoride (DuPont "Tedlar") top coating, in lieu of the standard vinyl coating, increases both chemical resistance and stain resistance.

This wall covering is recommended for use in dining rooms, waiting rooms, and other areas exposed to chemical reagents and staining agents and is available, at increased cost, in most standard vinyl wall covering colors and grains.

Provide a stain-resistant wall covering of medium duty type, finish as specified, with a polyvinylfluoride film top coating, conforming to FS CCC-W-408, Type II, and the following modifications:

Supporting material for wall covering may be mildew-resistant treated at the option of the wall covering manufacturer.

Use a clear polyvinylfluoride film, not less than 0.13 mm 0.005-inch thick as a top coating.

Provide the following physical properties:

| <u>REQUIREMENT</u> | <u>TEST METHOD</u> | <u>VALUE</u> |
|--|----------------------------|--|
| Coating weight, exclusive of fabric backing | CFFA-W-101-D, Test 5041 | Not less than 240 gram 7 ounces per square meter yard |
| Adhesion of coating to fabric backing | ASTM D 751 | Not less than 13 newton 3 pounds pull per 25 mm inch of width |
| Stain-resistance, covered spot test, 24-hour exposure, using the household chemical reagents and staining agents specified in ASTM D 1308 and the following: ballpoint pen ink lipstick | ASTM D 1308 | No perceptible staining or bleaching of coat- ing; stains readily removed with solvent or cleaning agent |

| <u>REQUIREMENT</u> | <u>TEST METHOD</u> | <u>VALUE</u> |
|--------------------|--------------------|--------------|
| nicotine | | |
| shoe polish | | |
| stamp-pad ink | | |
| rubber scuff marks | | |
| crayon | | |
| merthiolate | | |

NOTE: Since the color and grain of wall coverings are the factors that determine the cost of the material, it is recommended that a sample of the required color and grain be on display where it may be seen by bidders during the bidding period.

Match color and grain of wall covering of the sample approved. Provide a 1350 to 1370 mm 53 to 54 inch width wall covering.

2.1.2 Vinyl Wall covering [Type [A] [____]]

NOTE: Select the appropriate vinyl Type designation for each wall covering specified and delete inapplicable Types. Type selection should be based on abuse conditions and the following recommendations:

Type I (Light Duty) is satisfactory for use on ceilings and light duty walls not subjected to scuffing and abrasion. This type is rarely used.

Type II (Medium Duty) is satisfactory for areas subject to average traffic wear and scuffing. It may be used full height on walls or as a wainscot. Type II should be used for most vinyl wall covering installations.

Type III (Heavy Duty) is slightly more resistant to scuffing than Type II but is difficult to install and clean, and is not available from most manufacturers. Type III wall covering is expensive and should be used only where specifically requested.

Some manufacturer's Type I, Type II and/or Type III wall covering will overlap or vary slightly from the weights shown in the following paragraphs.

Conversion Table:

| | Type I | Type II | Type III |
|----------------|-----------|---------|----------|
| ozs/sq yd | 7 (10) | 13 | 22 |
| ozs/linear yd | 10.5 (15) | 20 | 33 |
| g/sq meter | 237 (339) | 441 | 746 |
| g/linear meter | 325 (465) | 620 | 1023 |

CFFA minimum requirements are listed in the above table, with the exception of the number shown in parenthesis. The measurements in parenthesis

reflect what is currently used in the industry for Type I. The heavier weight provides a more durable product.

The following formulas can be used for English to metric conversions:

a. Ounces per square yard to ounces per linear yard-
Multiply # ounces per square yard by
1872 for 52 inches wide or 1908 for 53 inches wide
or 1944 for 54 inches wide. Divide the total by
1296 to obtain per linear yard.

b. Ounces per square yard to grams per square meter-
Divide the # ounces per square yard by 144.
Multiply total by 4882 to obtain grams per square
meter measurement.

c. Ounces per linear yard to grams per linear meter-
Multiply # ounces per linear yard by 28.35.
Multiply total by 1.0936 to obtain grams per linear
meter measurement.

Polyvinyl-fluoride (PVF) film is an extra cost. The film is designed to provide additional resistance to staining and soiling from exposure to staining reagents or chemicals, and resistance from abuse. Generally the PVF coated vinyl wall coverings have a slightly different appearance from the standard noncoated vinyl wall covering. The film is available in 3 thicknesses with the thin gauge material being much less expensive. Various thicknesses represent moderate (thinnest), heavy, and extreme wear (thicker) in the installation area. Consider PVF film top coating for heavy-use areas; such as dormitories, dining halls, cafeterias, medical facilities, and clubs.

Delete PVF film when not required.

Provide a vinyl coated woven or nonwoven wall covering fabric. Conform to CFFA-W-101-D for vinyl wall covering, [Type I (Light Duty) with a minimum total weight of [237] [339] grams/square meter [7] [10] ounces/square yard and [325] [465] grams/linear meter [10] [15] ounces/linear yard] [Type II (Medium Duty) with a minimum total weight of 441 grams/square meter 13 ounces/square yard and 620 grams/linear meter 20 ounces/linear yard] [Type III (Heavy Duty) with a minimum total weight of 746 grams/square meter 22 ounces/square yard and 1023 grams/linear meter 33 ounces/linear yard]. Provide width of [1320/1371 mm 52/54 inch] [_____]. Test vinyl wall covering in accordance with NFPA 286 or have a Class A flame spread rating of 0-25 and smoke development rating of 0-450 when tested in accordance with ASTM E 84. Apply [a polyvinyl fluoride (PVF) film, [0.00889 mm 0.00035 inch] [0.0127 mm 0.0005 inch] [0.0254 mm 0.0010 inch] thick over the face of the wall covering. Provide a transparent (clear) film, medium gloss.]

2.1.3 Textile Wall covering [Type [A] [____]]

Provide textile wall covering with a woven fabric with paper or acrylic backing of colorfast, stain, and soil resistant. Test in accordance with NFPA 286 or have a Class A flame spread rating of 0-25 and smoke development rating of 0-450 when tested in accordance with ASTM E 84. Meet or exceed the following for textile wall covering :

- a. Face fiber content: [____]
- b. Weave: [Plain][____]
- c. Total weight: [____] g/square meter ounces/square yard
- d. Width: [____] mm inch

2.1.4 Wall Covering Border [Type [A] [____]]

Provide wall covering border of nonwoven vinyl cellulose/polyester blend or vinyl coated strippable paper back.

- a. Total weight: [____] g/linear meter ounces/linear yard.
- b. Width: [____] mm inch.

2.1.5 Presentation Dry Erase Wall covering

NOTE: Some products must be installed on glass reinforced cement board to achieve Class A rating.

**Research product to determine available features.
Note that surfaces designed to be used as a projection screen are not available with 50 by 50 mm (2 by 2 inch) grid pattern.**

Furnish presentation dry erase wall covering that accepts dry erase markings [and is designed to be used as a projection screen] [and has a 50 by 50 mm 2 by 2 inch grid pattern]. Provide wall covering with a minimum total weight of [678] [____] g/square meter [20] [____] ounces/square yard, a width of [1524 mm 60 inch] [____] and backing of a woven or nonwoven polyester. Test wall covering in accordance with NFPA 286 or have a Class A flame spread rating of 0-25 and smoke development rating of 0-450 when tested in accordance with ASTM E 84. Provide wall covering color [selected from manufacturers standard colors][white] [____]. When frame is required provide [aluminum] [oak] [____] and have a full length tray of the same material. Markings shall be removable with a felt eraser or cloth without ghosting. Provide each unit complete with an eraser, four different color compatible dry erase markers, and an 8 oz. bottle of liquid surface cleaner recommended by the manufacturer.

2.2 WALL LINER

NOTE: Wall lining should be specified where wall covering will be installed over masonry walls.

Provide a non-woven polyester cellulose blend wall liner having a minimum weight of 125 g/square meter 3.7 ounces/square yard and a total minimum thickness of 0.33 mm 0.013 inch. Test wall liner in accordance with NFPA 286 or have a Class A flame spread rating of 0-25 and smoke development rating of 0-450 when tested in accordance with ASTM E 84.

2.3 CORNER GUARDS

NOTE: Delete references to corner guards in this specification if they are to be of the type specified in Section 10 26 13 WALL AND CORNER GUARDS. Some projects may require both types. Coordinate locations when this occurs.

Furnish [1 mm 0.040 inch thick corner guards and cover 19 mm 3/4 inch] [1.9 mm 0.075 inch thick corner guards 28 mm 1 1/8 inch] [2.2 mm 0.085 inch thick and cover 63 mm 2 1/2 inch] [_____] each side of corner at right angles. Provide [clear] [_____] [polycarbonate] [vinyl] [rubber] corner guards from the same color lot.

2.4 WAINSCOT CAP

NOTE: A metal, vinyl, or wood wainscot cap molding will normally be required for all wainscot installations. The specification should include whether metal, vinyl, or wood molding is required. If metal or vinyl cap moldings are shown on the drawings, provisions in this paragraph should be modified accordingly. Delete inapplicable text if wainscot doesn't apply.

Provide [[satin-finished extruded aluminum] [_____] wainscot cap [19] [_____] mm [3/4] [_____] inch high, feathered at bottom edge, with 5 mm 3/16 inch exposed face on top edge, and grooved to receive the covering] [_____] .

2.5 PRIMER AND ADHESIVE

NOTE: Conformance with South Coast Air Quality Management District (SCAQMD) Rule No. 1168 as noted complies with LEED and SPiRit requirements.

When mold is a problem in the area consider specifying mold proof primers and adhesives.

Provide a type primer and adhesive recommended by the wall covering manufacturer, containing a non-mercury based mildewcide, and complying with local indoor air quality standards.[VOC content shall be less than the current VOC content limits of SCAQMD Rule 1168.] Primer shall permit removal of the wall covering and protect the wall surface during removal. Do not damage gypsum wallboard facing paper during removal of wall covering. Provide a strippable type adhesive. When substrate color variations show through vinyl wall covering, provide a white pigmented

primer as recommended by the wall covering manufacturer used to conceal the variations. Provide a recommended type adhesive to install corner guards and wainscot cap by the manufacturer of the corner guards and wainscot cap.

2.6 COLOR, TEXTURE, AND PATTERN

NOTE: Avoid selection of a deeply embossed pattern where frequent cleaning of wall covering is required.

Editing of color reference sentence(s) must be coordinated with the Government. Generally Section 09 06 90 Color Schedule or drawing is used when the project is designed by an Architect or Interior designer. Color should be selected from manufacturers standard colors or identified in this specification only when the project has minimal finishes.

When the government directs that color be located in the drawings add a note that states: "Where color is shown as being specific to one manufacturer, an equivalent color by another manufacturer may be submitted for approval. Manufacturers and materials specified are not intended to limit the selection of equal colors from other manufacturers. The word "color" as used herein includes surface color and pattern."

When more than one type, pattern or color is specified identify location and extent of work for each.

When a manufacturer's name, stock number, pattern, and color is used, be certain that the product conforms to this specification, as edited.

Prior to specifying a custom color finish, research to determine if additional cost is feasible. Note there is often a minimum order requirement; this requirement will also affect future orders.

Provide color [as indicated on the drawings] [selected from manufacturers standard colors] [[_____]. Color listed is not intended to limit the selection of equal colors from other manufacturers].

PART 3 EXECUTION

3.1 EXAMINATION

Inspect all areas and conditions under which wall coverings are to be installed. Notify the Contracting Officer, in writing, of any conditions detrimental to the proper and timely completion of the installation. Work will proceed only when conditions have been corrected and accepted by the installer.

3.2 SURFACE PREPARATION

NOTE: When applying wall covering over concrete or masonry surfaces, Section 03 31 00.00 10 CAST-IN-PLACE STRUCTURAL CONCRETE, will be coordinated to require, as applicable: (1) smooth concrete finish (2) masonry surfaces that are level and plumb with flush joints and square openings and (3) no variations in the surfaces exceeding 1 mm in 1000 mm (1/8 inch in 10 feet) with no abrupt irregularities.

Coordinate level of gypsum wallboard finish required for presentation dry erase wall covering with Section 09 29 00 Gypsum Board. Some manufacturers require a Level 4 finish and others Level 5.

When mold is a problem in an existing building that is being renovated, add verbiage to specification to cover removal of mold and appropriate surface preparation necessary to install new wall covering. In addition, the source of the moisture needs to be located and fixed prior to installation of the wall covering.

Do not apply wall covering to surfaces that are rough, that contain stains which will bleed through the wall covering, or that are otherwise unsuitable for proper installation. Fill cracks and holes; sand rough spots smooth. Finish walls to receive presentation dry erase wall covering to a Level 4 gypsum wallboard finish in accordance with GA 214 unless Level 5 is recommended by the wall covering manufacturer. Thoroughly dry surfaces at least 30 days prior to installation of vinyl wall covering. Provide interior surfaces of new and existing gypsum wallboard with a wall covering primer in accordance with the manufacturer's printed instructions. As required, use white primer when substrate color variations are visible through thin or light color wall covering. Seal interior surfaces of exterior masonry walls to prevent moisture penetration, then prime with a wall covering primer in accordance with the manufacturer's printed instructions. Provide masonry walls with flush joints. Test moisture content of plaster, concrete, and masonry with an electric moisture meter of a maximum five percent reading. Apply a thin coat of joint compound or cement plaster, as recommended by the wall covering manufacturer, to the concrete and masonry walls as a substrate preparation. To promote adequate adhesion of wall lining over masonry walls, prime the walls as recommended by the wall lining manufacturer. Prime the surfaces of walls as required by the manufacturer's printed instructions to permit ultimate removal of wall covering from the wall surfaces. Allow primer to completely dry before adhesive application.

3.3 INSTALLATION

3.3.1 Wall Liner

NOTE: Provide reinforcing at partitions to support presentation dry erase wall covering frames.

Install wall liner over masonry walls that are to receive wall covering. Install liner in accordance with the manufacturer's printed installation instructions. Install liner perpendicular to wall covering to prevent overlapping of seams between liner and wall covering.

3.3.2 Wall Covering

Install wall covering in accordance with the manufacturer's printed installation instructions. Remove glue and adhesive spillage from wall covering face and seams with a remover recommended by the manufacturer. After the installation is complete, vacuum the fabric with a ceiling to floor motion. Upon completion of presentation dry erase wall covering installation, clean the wall covering surface as recommended by the manufacturer prior to first use. When frame and tray are required for presentation dry erase wall covering, install them in accordance with manufacturer's installation instructions.

3.3.2.1 Presentation Dry Erase Wall Covering Placement

NOTE: Delete frame size column in schedule when wall-to-wall and floor-to-ceiling wall covering is specified.

Location of wall covering and mounting height of framed wall covering must be specified.

Size and type of wall covering should be specified only once in the contract documents. If more than one type is specified, clearly identify locations.

Installing horizontally eliminates seams at writing height when installed at the proper height.

Install presentation dry erase wall covering [wall-to-wall and floor-to-ceiling] [_____] and horizontally on the wall. Make the first seam at [610 mm 24 inch above finished floor for rooms with 2440 mm 8 foot ceilings] [and] [760 mm 30 inch above finished floor for rooms with 2740 mm 9 foot ceilings] [_____]. Do not make seams at writing height to provide a continual, seamless writing surface. [Provide wall covering with an [aluminum] [oak] [_____] frame. Provide a mounting height of framed wall covering [as shown on the drawings] [[_____] above finished floor to top of the frame.]] Wall covering locations are [as indicated on drawings.] [as scheduled below:

| Room Name and Number | Wall Location | Frame Size |
|-------------------------|------------------|---------------|
| [_____] | [_____] | [_____] |

3.3.2.2 Textile Wall Covering

When textile wall coverings are specified to comply with NFPA 265 or ICC IBC (Section 803.5.1 Textile Wall Coverings) testing, install the wall covering in accordance with the manufacturer's printed installation instructions for compliance with the testing using the same product mounting system, including adhesive.

3.3.3 Corner Guards and Wainscot Cap

Install corner guards and wainscot cap [where shown on drawings sheet [____]] [on all exposed corners with [wall covering] [____]] and in accordance with the manufacturer's printed instructions. Run corner guards from top of base to [wainscot cap] [ceiling] [____] in a continuous length.

3.4 CLEAN-UP

Upon completion of the work, clean wall covering free of dirt, soiling, stain, or residual film. Remove and clean surplus materials, rubbish, and debris resulting from the wall covering installation.

-- End of Section --