
USACE / NAVFAC / AFCEA / NASA UFGS-09720 (April 2004)

Preparing Activity: USACE MasterFormat™ 2004 - 09 72 00
Superseding
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UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated 23 June 2005

Latest change indicated by CHG tags

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SECTION 09720

WALLCOVERINGS

04/04

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

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).

Use of electronic communication is encouraged.

Brackets are used in the text to indicate designer choices or locations where text must be supplied by the designer.

PART 1 GENERAL

NOTE: On the drawings, show:

1. Location and extent of work including dimensions of surfaces to receive wallcovering.

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 C 423 | (2002a) Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method |
| ASTM E 84 | (2004) Surface Burning Characteristics of Building Materials |

CHEMICAL FABRICS & FILM ASSOCIATION (CFFA)

- | | |
|--------------|---|
| CFFA-W-101-D | (2000) Vinyl Coated Fabric Wallcovering |
|--------------|---|

GYPSUM ASSOCIATION (GA)

- | | |
|--------|--|
| GA 214 | (1996) Recommended Levels of Gypsum Board Finish |
|--------|--|

INTERNATIONAL CODE COUNCIL (ICC)

- | | |
|---------|------------------------------------|
| ICC IBC | (2003) International Building Code |
|---------|------------------------------------|

INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO)

- | | |
|----------|---|
| UBC 42-2 | (1991) Uniform Building Code Standard No. 42-2, Standard Test Method for Evaluating Room Fire Growth Contribution of Textile Wall Coverings |
| UBC 8-2 | (1994) Uniform Building Code Standard No. 8-2, Standard Test Method for Evaluating Room Fire Growth Contribution of Textile Wall Coverings |

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

- | | |
|----------|---|
| NFPA 265 | (2002) Fire Tests for Evaluating Room Fire Growth Contribution of Textile Coverings |
|----------|---|

on Full Height Panels and Walls

NFPA 286

(2000) 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

(2003) Adhesive and Sealant Applications

1.2 SUBMITTALS

NOTE: Review submittal description (SD) definitions in Section 01330 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.] The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-03 Product Data

Wallcoverings and Accessories[; G][; G, [____]]

Wallcovering 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. Submit Material Safety Data Sheets (MSDS) for all primers and adhesives to the Contracting Officer. Highlight VOC emissions.

SD-04 Samples

Wallcoverings and Accessories[; G][; G, [_____]]

[Three] [_____] samples of each indicated type, pattern, and color of wallcovering. Samples of wallcovering shall be minimum 125 x 175 mm 5 x 7 inches and of sufficient size to show pattern repeat.

[Three][_____] samples of each indicated type of frame for presentation dry erase wallcovering. Samples shall be a minimum of 75 mm 3 inches long.

[Three] [_____] samples of each indicated type corner guard and wainscot cap. Samples shall be a minimum of 75 mm 3 inches long.

Vinyl Wallcovering Mockup Panels. After vinyl wallcovering samples are approved, and prior to starting installation, a minimum 2430 x 2430 mm 8 x 8 foot vinyl wallcovering mock-up shall be provided for each color and type of vinyl wallcovering, using the proposed primers and adhesives and actual substrate materials. Once approved, the mock-up samples shall be used as a standard of workmanship for installation within the facility. At least 48 hours prior to mock-up installation, the Contractor shall submit written notification to the Contracting Officer's Representative.

SD-07 Certificates

Wallcoverings and Accessories

Manufacturer's statement attesting that the product furnished meets or exceeds specification requirements. The statement must; be dated after the award of the contract, state Contractor's name and address, name the project and location, and list the requirements being certified.

SD-08 Manufacturer's Instructions

Wallcoverings and Accessories

Preprinted installation instructions for wallcovering and accessories, adhesives and primers. Instructions shall include preparation of the substrate.

SD-10 Operation and Maintenance Data

Wallcoverings[; G][; G, [_____]]

Submit Data Package 1 in accordance with Section 01781 OPERATION

AND MAINTENANCE DATA.

1.3 DELIVERY AND STORAGE

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 wallcovering material in a flat position and protect from damage, soiling, and moisture. Do not open containers until needed for installation, unless verification inspection is required.

1.4 ENVIRONMENTAL REQUIREMENTS

Minimum temperature of area to receive wallcovering, before, during, and after installation, and requirements for conditioning adhesive and wallcovering shall comply with the wallcovering manufacturer's printed instructions. However, in no case shall the area temperature be less than 10 degrees C 50 degrees F, 72 hours prior to, during installation, and until the adhesive is dry. A minimum temperature of 13 degrees C 55 degrees F shall be maintained thereafter. Observe ventilation and safety procedures specified in the MSDS.

1.5 WARRANTY

Manufacturer's standard performance guarantees or warranties that extend beyond a one-year period shall be provided.

1.6 EXTRA MATERIALS

NOTE: Extra stock of wallcovering 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 wallcovering of each pattern and color for each [100] [_____] linear meters [100] [_____] linear feet of wallcovering installed[, excluding presentation dry erase wallcovering]. Extra stock shall be of the same manufacturer, type, pattern, color, and lot number as the installed wallcovering. 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 WALLCOVERINGS

NOTE: If more than one wallcovering type is
required and specifications vary, a separate
paragraph Vinyl Wallcovering Type, Fabric
Wallcovering Type, Acoustical Wallcovering Type,

and/or Wallcovering Border Type will be used for each wallcovering type. Each wallcovering type will be designated with a letter or number symbol. Use the same symbols to key wallcovering types to locations on the drawings and Section 09915 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 shall comply with one of the following conditions:

a. Textile materials having a Class A rating shall 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 shall be permitted on partitions that do not exceed 3/4 of the floor-to-ceiling height or do not exceed 8 feet (2440 mm) in height whichever is less.

c. Textile materials having a Class A rating shall be permitted to extend not more than 4 feet (1200 mm) above the finished floor on ceiling-height walls and ceiling-height partitions.

d. Textile materials shall 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, UBC 42-2 and UBC 8-2 are equivalent to NFPA 265.)

Wallcoverings and accessories shall be material designed specifically for the specified use. Vinyl wallcovering and borders shall be mercury, cadmium, lead, and chromium free. Wallcoverings shall contain bactericides and mildew inhibitors to protect against microbiological and mildew growth.

2.1.1.1 Vinyl Wallcovering [Type [A] [____]]

NOTE: Select the appropriate vinyl Type designation for each wallcovering 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 wallcovering 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 wallcovering is expensive and should be used only where specifically requested.

Some manufacturer's Type I, Type II and/or Type III wallcovering 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.
Multiple 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 wallcoverings have a slightly different appearance from the standard noncoated vinyl wallcovering. 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.

Vinyl wallcovering shall be vinyl coated woven or nonwoven fabric. Vinyl wallcovering shall conform to CFFA-W-101-D, [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]. Width shall be [1320/1371 mm 52/54 inches] [____]. Vinyl wallcovering shall be tested 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. [A polyvinyl fluoride (PVF) film, [0.00889 mm 0.00035 inch] [0.0127 mm 0.0005 inch] [0.0254 mm 0.0010 inch] thick shall be factory applied over the face of the wallcovering. The film shall be transparent (clear), medium gloss.]

2.1.2 Fabric Wallcovering [Type [A] [____]]

Fabric wallcovering shall be a woven fabric with paper or acrylic backing and shall be colorfast, stain, and soil resistant. Wallcovering shall be tested in accordance with [NFPA 265, ICC IBC (Section 803.5.1 Textile Wall Coverings) requirements, UBC 42-2, or UBC 8-2] [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]. Fabric wallcovering shall meet or exceed the following:

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

2.1.3 Acoustical Wallcovering [Type [A] [____]]

NOTE: Add static control data if needed to meet project requirements.

Acoustical wallcovering shall be [synthetic material] [vinyl coated fabric with porous surface with fused back] [____]. Wallcovering shall be tested in accordance with [NFPA 265, ICC IBC (Section 803.5.1 Textile Wall Coverings) requirements, UBC 42-2, or UBC 8-2] [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]. Acoustical wallcovering shall meet or exceed the following:

- a. Total weight: [____] g/square meter ounces/square yard.
- b. Width: [____] mm inches.
- c. NRC rating in accordance with ASTM C 423; minimum NRC [____].

2.1.4 Wallcovering Border [Type [A] [____]]

Wallcovering border shall be nonwoven vinyl cellulose/polyester blend or vinyl coated strippable paper back.

a. Total weight: [____] g/linear meter ounces/linear yard.

b. Width: [____] mm inches.

2.1.5 Presentation Dry Erase Wallcovering

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 x 50 mm (2 x 2 inch) grid pattern.**

Presentation dry erase wallcovering shall accept dry erase markings[and be designed to be used as a projection screen][and have a 50 x 50 mm 2 x 2 inch grid pattern]. Wallcovering shall have a minimum total weight of [678] [____] g/square meter [20] [____] ounces/square yard, be [1524 mm 60 inches] [____] wide and backing shall be a woven or nonwoven polyester. Wallcovering shall be tested 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. Wallcovering color shall be [selected from manufacturers standard colors][white][____]. When frame is required it shall be [aluminum][oak][____] and have a full length tray of the same material. Markings shall be removable with a felt eraser or cloth without ghosting. Each unit shall come 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 wallcovering will be installed over masonry walls.

Wall liner shall be a non-woven polyester cellulose blend 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 inches. Wall liner shall be tested 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 10260 WALL AND CORNER GUARDS. Some projects may require both types. Coordinate locations when this occurs.

Corner guards shall be [1 mm 0.040 inch thick and shall cover 19 mm 3/4 inch] [1.9 mm 0.075 inch thick and shall cover 28 mm 1 1/8 inch] [2.2 mm 0.085 inch thick and shall cover 63 mm 2 1/2 inch] [] each side of corner at right angles. Corner guards shall be [clear] [] [polycarbonate] [vinyl] [rubber] 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.

Wainscot cap shall be [[satin-finished extruded aluminum] []] about [19] [] mm [3/4] [] inch high, feathered at bottom edge, with an approximate 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 #1168 as noted complies with LEED and SPiRiT requirements.

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

Primer and adhesive shall be of a type recommended by the wallcovering manufacturer, contain a non-mercury based mildewcide, and comply with local indoor air quality standards.[VOC content must be less than the current VOC content limits of SCAQMD Rule #1168.] Primer shall permit removal of the wallcovering and protect the wall surface during removal, gypsum wallboard facing paper shall not be damaged during removal of wallcovering. Adhesive shall be strippable. When required, primer and adhesive for textile wallcovering shall be of the type used for testing to comply with NFPA 265, UBC 42-2, or UBC 8-2 requirements. When substrate color variations show through vinyl wallcovering, a white pigmented primer as recommended by the wallcovering manufacturer shall be used to conceal the variations. Adhesive to install cornerguards and wainscot cap shall be of a type recommended by the manufacturer of the cornerguards and wainscot cap.

2.6 COLOR, TEXTURE, AND PATTERN

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

Editing of color reference sentence(s) shall be coordinated with the Government. Generally the

09915 Color Schedule or drawing is used when the project is designed by an Architect or Interior designer. Color shall 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 a note shall be added 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.

Unless otherwise noted, color shall be [in accordance with Section 09915 COLOR SCHEDULE] [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

Contractor shall inspect all areas and conditions under which wallcoverings are to be installed. Contractor shall 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 wallcovering over concrete or masonry surfaces, Section 03300 CAST-IN-PLACE STRUCTURAL CONCRETE or Section 03300N CAST-IN-PLACE CONCRETE, and Section 04200 MASONRY, 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 wallcovering with Section 09250 Gypsum Wallboard. 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 wallcovering. In addition, the source of the moisture needs to be located and fixed prior to installation of the wallcovering.

Walls shall be prepared for proper installation of wallcovering in accordance with wallcovering manufacturers instructions. Wallcovering shall not be applied to surfaces that are rough, that contain stains that will bleed through the wallcovering, or that are otherwise unsuitable for proper installation. Cracks and holes shall be filled and rough spots shall be sanded smooth. Walls to receive presentation dry erase wallcovering shall be finished to a Level 4 gypsum wallboard finish in accordance with GA 214 unless Level 5 is recommended by the wallcovering manufacturer. Surfaces to receive wallcovering shall be dry. Moisture content of gypsum wallboard, plaster, concrete, and masonry to receive wallcovering and the type of moisture meter used shall be as recommended by the wallcovering manufacturer. Plaster surfaces shall age at least 30 days prior to installation of vinyl wallcoverings. Interior surfaces of new and existing gypsum wallboard shall be primed with a wallcovering primer in accordance with the manufacturer's instructions. As required, white primer shall be used when substrate color variations are visible through thin or light color wallcovering. Interior surfaces of exterior masonry walls shall be sealed to prevent moisture penetration, then primed with a wallcovering primer in accordance with the manufacturer's instructions. Masonry walls shall have flush joints. Concrete and masonry walls shall be coated with a thin coat of joint compound or cement plaster as a substrate preparation. To promote adequate adhesion of wall lining over masonry walls, the walls shall be primed as recommended by the wall lining manufacturer. Primers and adhesives shall be prepared and applied in accordance with manufacturers instructions. Surface of walls shall be primed as required by wallcovering manufacturer's instructions to permit ultimate removal of wallcovering from the wall surface. Primer shall be allowed to completely dry before adhesive application.

3.3 INSTALLATION

3.3.1 Wall Liner

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

Wall liner shall be installed over masonry walls that are to receive wallcovering. Liner shall be installed in accordance with the manufacturer's installation instructions. Liner shall be installed perpendicular to wallcovering to prevent overlapping of seams between liner and wallcovering.

3.3.2 Wallcovering

Wallcovering shall be installed in accordance with the manufacturer's installation instructions. When textile wallcoverings are specified to comply with NFPA 265, ICC IBC (Section 803.5.1 Textile Wall Coverings), UBC 42-2, or UBC 8-2 testing the wallcovering shall be installed in accordance with the manufacturer's installation instructions for compliance with the testing using the same product mounting system, including adhesive. Glue and adhesive spillage shall be immediately removed from wallcovering face and seams with a remover recommended by the manufacturer. After the installation is complete, the fabric and acoustical wallcovering shall be vacuumed with a ceiling to floor motion. Upon completion of presentation dry erase wallcovering installation, clean the wallcovering surface as recommended by the manufacturer prior to first use. When frame and tray are required for presentation dry erase wallcovering they shall be installed in accordance with manufacturer's installation instructions.

3.3.2.1 Presentation Dry Erase Wallcovering Placement

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

Location of wallcovering and mounting height of framed wallcovering must be specified.

Size and type of wallcovering 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.

Presentation dry erase wallcovering shall be installed [wall-to-wall and floor-to-ceiling] [_____] and be installed horizontally on the wall. First seam shall occur at [610 mm 24 inches above finished floor for rooms with 2440 mm 8 foot ceilings] [and] [760 mm 30 inches above finished floor for rooms with 2740 mm 9 foot ceilings] [_____]. There shall be no seams at writing height; a continual, seamless writing surface shall be provided. [Wallcovering shall have an [aluminum] [oak] [_____] frame. Mounting height of framed wallcovering shall be [as shown on the drawings] [[_____] above finished floor to top of the frame.]] Wallcovering locations shall be [as indicated on drawings.] [as scheduled below:

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

3.3.3 Corner Guards and Wainscot Cap

Corner guards and wainscot cap shall be installed [where shown on the drawings] [on all exposed corners with [wallcovering] [_____] and in accordance with the manufacturer's printed instructions. Corner guards shall run from top of base to [wainscot cap] [ceiling] [_____] in a continuous length.

3.4 CLEAN-UP

Upon completion of the work, wallcovering shall be left clean and free of dirt, soiling, stain, or residual film. Surplus materials, rubbish, and debris resulting from the wallcovering installation shall be removed and area shall be left clean.

-- End of Section --