

**SECTION 09 72 16**  
**VINYL-COATED FABRIC WALL COVERINGS**

**PART 1 - GENERAL**

**1.1 DESCRIPTION:**

A. Section specifies vinyl coated fabric wall covering and installation.

**1.2 RELATED WORK:**

A. Sustainable Design Requirements: Section 01 81 13, SUSTAINABLE CONSTRUCTION REQUIREMENTS.

**1.3 SUBMITTALS:**

A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.

B. Sustainable Design Submittals, as described below:

1. Volatile organic compounds per volume as specified in PART 2 - PRODUCTS.

C. Samples:

1. Size: Full width of mill run not less than 450 mm (18 inches) in length.

D. Manufacturer's Certificates:

1. Compliance with WA W-101.  
2. Wall covering manufacturer's approval of adhesive.

E. Manufacturer's Literature and Data:

1. Wall covering primer and adhesive.  
2. Installation instructions.  
3. Maintenance instructions, including recommended materials and methods for maintaining wall covering with precautions in use of cleaning material.  
4. Adhesive for edge guard and wainscot cap.

F. Tests: Substrate moisture.

**1.4 QUALITY ASSURANCE:**

A. Finish one complete wall (full height, not less than 2438 mm (8 feet) in length) of each type (color and pattern) of wall covering showing specified colors and patterns.

B. After Contracting Officer Representative (COR) approval, the sample installation will serve as a standard for work throughout the project.

**1.5 DELIVERY, STORAGE AND HANDLING:**

A. Deliver in original unopened containers bearing the manufacturer's name, brand name, and product designation.

B. Store in accordance with manufacturer's instructions.

C. Handle to prevent damage to material.

#### **1.6 APPLICABLE PUBLICATIONS:**

A. Publications listed below form a part of this specification to the extent referenced. Publications are referenced in the text by the basic designation only.

B. ASTM International (ASTM):

E84-14.....Surface Burning Characteristics of Building  
Materials

G21-13.....Determining Resistance of Synthetic Polymeric  
Materials to Fungi

C. Code of Federal Regulation (CFR):

40 CFR 59.....Determination of Volatile Matter Content, Water  
Content, Density Volume Solids, and Weight  
Solids of Surface Coating

D. Wallcovering Association (WA):

W-101-13.....Quality Standard Polymer Coated Fabric  
Wallcoverings

### **PART 2 - PRODUCTS**

#### **2.1 VINYL COATED FABRIC WALL COVERING:**

A. Comply with WA W-101.

B. Fungi Resistance: ASTM G21, rating of zero (0).

C. Factory-applied clear delustered polyvinyl-fluoride (PVF) coating:

1. Minimum 0.0125 mm (1/2 mil) thickness.

2. Do not include PVF coating weight in minimum total weight.

3. Fire hazard classification with PVF coating: Class A unless  
specified otherwise.

D. Type III (Heavy Duty).

#### **2.2 PRIMER AND ADHESIVE:**

A. Adhesive shall have a VOC content of 50 g/L or less when calculated according to 40 CFR 59, (EPA Method 24).

B. Vermin, mildew resistant and germicidal inhibiting type recommended by wall covering manufacturer for use on substrate to receive wall covering.

#### **2.3 WALL LINER:**

A. Provide a non-woven polyester cellulose blend having a minimum weight of 0.125 Kg/square meter (3.7 ounces per square yard) and a total minimum thickness of 0.325 mm (0.013 inches). Wall liner is to have a

flame spread rating of 0-20 and smoke development rating of 0-25 when tested in accordance with ASTM E84.

#### **2.4 EDGE GUARDS OR WAINSCOT CAP TRIM:**

- A. "J" shape with groove to receive the wall covering.
- B. Concealed edge feathered, not less than 19 mm (3/4 inch) wide.
- C. Designed for adhesive attachment.
- D. Use anodized extruded aluminum.

### **PART 3 - EXECUTION**

#### **3.1 JOB CONDITIONS:**

- A. Temperatures:
  - 1. Do not perform work until surfaces and materials have been maintained at minimum of 16 degrees C (60 degrees F) for three (3) days before work begins.
  - 2. Maintain minimum temperatures of 16 degrees C (60 degrees F) until adhesives are dried or cured.
- B. Lighting:
  - 1. Do not proceed unless a minimum lighting level of 15 candela per 0.09 square meter (15 candela per square foot) is provided.
  - 2. Measure light level at mid-height of wall.
- C. Ventilation: Provide continuous ventilation as required to rid the spaces in which the wall coverings are being installed of volatile compounds given off by the wall coverings, sealers and adhesives and as recommended by the product manufacturer for full drying or curing.
- D. Protect other surfaces from damage resulting from installation of wall coverings. Provide drop cloths, shields and protective equipment to prevent primers, adhesives or wall covering from fouling adjacent surfaces and in particular, storage and preparation areas.
- E. Store flammable rubbish, waste, cloths and materials which may constitute a fire hazard, in closed metal containers. Daily remove and properly dispose of flammable wastes from the site.

#### **3.2 SURFACE CONDITION AND PREPARATION:**

- A. Inspect surfaces to receive wall coverings to assure that:
  - 1. Patches and repairs to substrates are completed.
  - 2. Surfaces are clean, smooth and prime painted.
  - 3. Masonry and concrete walls are to have flush joints. Coat these walls with cement plaster or wall/liner as substrate preparation.
- B. Surfaces to receive wall covering are to be dry. Test moisture content of plaster, concrete, and masonry walls with an electric moisture

meter. The moisture content is not permitted to be more than 5 percent. Submit test results.

- C. Do not proceed until discovered defects have been corrected by other trades and surfaces are ready to receive wall covering.
- D. Carefully remove electrical outlet and switch plates, mechanical diffusers, escutcheons, registers, surface hardware, fittings and fastenings, prior to starting work and store items for reinstallation.
- E. Install Edge Guard Trim:
  - 1. Locate where shown or specified in construction documents.
  - 2. Run edge guards from top of base to ceiling in continuous length.
  - 3. Run wainscot cap trim level unless shown otherwise in construction documents.
  - 4. Install as specified by manufacturer of edge guard in adhesive.
  - 5. Smooth adhesive edge. Do not leave adhesive exposed to view.
  - 6. Leave ready to receive wall covering.

### **3.3 APPLICATION OF ADHESIVE:**

- A. Mix and apply adhesives in accordance with manufacturer's directions.
- B. Prevent adhesive from getting on face of wall covering.
- C. Apply adhesive to wall covering back.

### **3.4 INSTALLATION:**

- A. Use wall covering of same batch or run in each area. Use fabric rolls in consecutive numerical sequence of manufacture.
- B. Install material completely adhered, smooth, clean, without wrinkles, air pockets, gaps or overlaps.
- C. Extend wall covering continuous behind non-built-in casework and other items which are not bolted to the walls.
- D. Install wall covering before installation of resilient base. Extend wall covering not more than 6 mm (1/4 inch) below top of resilient base.
- E. Install wall covering panels consecutively in order in which they are cut from the roll including filling spaces above or below windows, doors, or similar penetrations.
- F. Do not install horizontal seams.
- G. Except on match patterns, hang fabric by reversing alternate strips, except as recommended by the manufacturer.
- H. Cutting:
  - 1. Cut on a work table with a straight edge.
  - 2. Joints or seams that are not cut clean are unacceptable.

3. Trim additional selvage to achieve a color and pattern match at seams. Overlapped seams are not allowed.
4. Do not double cut seams on wall unless specified.
5. If double cutting on the wall is necessary, place a three inch strip of Type I wall covering under pasted edge.
  - a. Do not cut into wall surface.
  - b. After cutting, remove strip and excess adhesive from seam before proceeding to next seam.
  - c. Smooth down seam in adhesive for tight bond and joint.
- I. Trim strip-matched patterns which are not factory pre-trimmed.
- J. Inside Corners:
  1. Wrap wall covering around corners.
  2. Do not seam within 50 mm (2 inches) of inside corners.
  3. Double cut seams.
- K. Outside Corners:
  1. Wrap wall covering around corners.
  2. Do not seam within 152 mm (6 inches) of outside corners.
  3. Double cut seams.

### **3.5 PATCHING:**

- A. Replace surface damaged wall covering in a space as specified for new work:
  1. Replace full height of surface.
  2. Replace from break in plane to break in plane when same batch or run is not used.
  3. Double cut seams.
  4. Adjoining differential colors from separate batches or runs is not acceptable.
- B. Correct loose or raised seams with adhesives to lay flat with tight bonded joint as specified for new work.

### **3.6 CLEANING AND INSTALLING TEMPORARY REMOVED ITEMS:**

- A. Remove adhesive from wall covering as work proceeds.
- B. Remove adhesives where spilled, splashed or splattered on wall coverings or adjacent surfaces in a manner not to damage surface from which it is removed.
- C. Upon completion of work, leave wall covering free of dirt or soil.
- D. Remove all debris associated with wall covering installation.

E. Reinstall previously removed electrical outlet and switch plates,  
mechanical diffusers, escutcheons, registers, surface hardware,  
fittings and fastenings.

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