

SECTION 09722

WALL FABRICS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Surface preparation of substrate.
- B. Backed fabric wall covering.
- C. Fabric wall covering for acoustical panels.
- D. Adhesives and accessories.

1.2 RELATED SECTIONS

- A. Section 09720 - Wall Covering: Vinyl-coated fabric wall covering.
- B. Section 09800 - Acoustical Treatment: Acoustic panels for fabric wall covering.
- C. Section 09900 - Paints and Coatings: Prime painting of substrate surfaces.

1.3 REFERENCES

- A. AATCC 16 - Colorfastness to Light; American Association of Textile Chemists & Colorists.
- B. AATCC 22 - Water Repellency: Spray Test; American Association of Textile Chemists & Colorists.
- C. AATCC 100 - Assessment of Antibacterial Finishes on Textile Materials; American Association of Textile Chemists & Colorists.
- D. ASTM C 423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
- E. ASTM D 3597 - Standard Performance Specification for Woven Upholstery Fabrics -- Plain, Tufted, or Flocked.
- F. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- G. ASTM E 795 - Standard Practices for Mounting Test Specimens During Sound Absorption Tests.

- H. ASTM G 21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
- I. ASTM G 22 - Standard Practice for Determining Resistance of Plastics to Bacteria.
- J. NFPA 701 - Standard Methods of Fire Test for Flame-Resistant Textiles and Films; National Fire Protection Association.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's published data on fabric properties, including results of performance testing.
- C. Selection Samples: Manufacturer's complete collection of swatches for selection of colors and patterns.
- D. Verification Samples: Samples of each wall fabric selected, not less than 12 inches (300 mm) square.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Not less than five years of documented experience in manufacturing wall fabrics of the types specified.
- B. Installer Qualifications: Not less than three years of experience in installing wall fabrics of the types specified.
- C. Mock-Up: Provide mock-up panel at location indicated by the Architect, illustrating finished appearance of fabric wall covering.
 - 1. Minimum Dimensions: 9 feet by 12 feet (3 m by 4 m).
 - 2. Minimum Dimensions: _____.
 - 3. Approved mock-up may remain as part of the Work.
 - 4. Mock-up may not remain as part of the Work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver wall coverings, adhesives and accessories to project site in sealed, labeled packages and containers,

each bearing manufacturer's name and identification of contents.

- B. Store rolled wall fabrics flat in a dry, covered area with temperature maintained at not less than 60 degrees F (16 degrees C) and humidity at level normal for the space where fabric will be installed.

1.7 ENVIRONMENTAL REQUIREMENTS

- A. Thermal Conditions: Do not begin installation until three days after spaces to receive wall fabrics have been maintained at minimum temperature of 60 degrees F (16 degrees C) and humidity level normal for the spaces. Maintain these conditions for not less than 48 hours after installation has been completed.
- B. Ventilation: Provide continuous ventilation of spaces during installation and until volatile compounds from adhesives have fully dissipated.

1.8 EXTRA MATERIALS

- A. Supply minimum 25 linear feet (8 linear meters) of each color and pattern of wall fabric installed, for Owner's use in maintenance. Package each roll and label by manufacturer name, color and pattern name, and installed locations.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer: Project design is based on fabrics by Carnegie, located at 110 North Centre Avenue, Rockville Centre, NY 11570. ASD. Tel: (800) 727-6770; Fax: (516) 678-6848.
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600; include substantiation of product performance.
- C. Substitutions: Not permitted.

2.2 WALL FABRICS

- A. Wall Fabrics: Woven from Xorel yarn in both warp and weft; colorfast, stain resistant, and soil resistant.

1. Yarn Type: Classic Xorel.
 - a. Pattern: Strio 6423.
 - b. Pattern: Nexus 6425.
2. Yarn Type: Classic Xorel IFR.
 - a. Pattern: Meteor 6427.
3. Yarn Type: Xorel Two.
 - a. Pattern: As selected from manufacturer's standards.
 - b. Pattern: _____.
4. For installation on walls, provide fabrics with paper or acrylic backing.
5. For stretching over acoustic panels, provide fabric with no backing.
6. For stretching over acoustic panels, provide fabric with acrylic backing.
7. Colors: As selected by Architect from manufacturer's standards.
8. Colors: As scheduled.
9. Colors: _____.

B. Fabric Properties: Comply with the following minimum performance levels:

1. Vertical flame retardancy: Pass NFPA 701.
2. Flame spread rating: 10 maximum, per ASTM E 84.
3. Smoke development rating: 45 maximum, per ASTM E 84.
4. Toxicity Under Fire Conditions: No more toxic than wood under University of Pittsburgh Method.
 - a. Approved by Materials and Acceptance Division of New York City Department of Buildings.
5. Offgassing: Emissions raise no significant indoor air quality concern, as tested by Berkley Analytical Associates.
6. Acoustical transparency: Maximum decrease in NRC of 0.10, for acoustical panels, per ASTM C 423, when mounted in accordance with ASTM E 795.
7. Durability: No wear after 1,000,000 double rubs with cotton duck abrader, per ASTM D 3597.
8. Colorfastness: No less than Grade 4 after 200 hours, per AATCC 16, Option A.
9. Water repellency: 100 percent water repellent, per AATCC 22.
10. Fungus resistance: No growth after 28 days, per ASTM G 21.
11. Bacteria resistance: No apparent growth after 28 days, per ASTM G 22.
12. Staphylococcus Aureus Resistance: Does not support the growth of staphylococcus aureus, per AATCC 100.

13. Bacterial Strike-Through: Retards passage of bacterial cells through fabric and is resistant to water permeability.

2.3 ACCESSORIES

- A. Primer: Mildew resistant type recommended by fabric manufacturer for substrate to receive wall fabric covering.
- B. Adhesive: Mildew resistant vinyl adhesive recommended by fabric manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that substrates are ready to begin work of this section.
 1. Test moisture content of masonry, concrete, and plaster walls to verify maximum of 5 percent.
 2. Verify that no loose or flaky paint, stains that might bleed through wall fabric, or mildew are present.
- B. Do not begin work of this section until unsatisfactory substrate conditions have been corrected.

3.2 PREPARATION

- A. Fill cracks or holes over 1/16 inch (1.6 mm) and sand smooth.
- B. Prime substrate as recommended by wall fabric manufacturer.
- C. Remove electrical plates, hardware, light fixture trim, and similar appurtenances prior to beginning installation.

3.3 INSTALLATION

- A. Adhesive Installation: Apply adhesive and wall fabric in accordance with manufacturer's instructions. Do not thin adhesive with chemical solvent. Apply adhesive to paper

backing and not to wall surfaces. Roll drops after pasting instead of folding.

B. Direct Wall Application:

1. Razor trim edges on flat surface. Do not razor cut on gypsum board substrate.
2. Do not paste more than two drops at a time.
3. Do not let glue set up for more than five minutes.
4. Cut and hang drops consecutively, including pieces over windows and doors.
5. Do not use seam roller of any type at seams or edges; smooth seams with plastic scraper.
6. Horizontal seams are not acceptable.
7. Do not seam within 2 inches (50 mm) of internal and external corners.
8. Remove excess adhesive from seam while wet, using slightly damp sponge and clean, hot water. Dry immediately with clean terry towel.

C. Stretched Installation: Over acoustical panels, install fabric in accordance with panel manufacturer's instructions.

1. Provide seam allowances of at least 1/2 inch (13 mm).
2. Top stitch seams for additional strength.

3.4 ADJUSTING, CLEANING, AND PROTECTION

- A. Clean wall coverings of excess adhesive, dust, and dirt.
- B. Reinstall electrical plates, hardware, light fixture trim, and similar appurtenances.
- C. Do not permit construction activities in areas where wall fabric installation has been completed.

3.5 SCHEDULE

- A. Fabric Type _____:
1. Pattern No.: _____.
 2. Color: _____.
 3. Locations: _____.

END OF SECTION