



March 2019

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## Division 09 72 16

### P3TEC

#### Advanced Wall Protection

#### PART 1 GENERAL

##### 1.01 SECTION INCLUDES

A. Wall Protection

##### 1.02 REFERENCE STANDARDS

A. ASTM D1308-02 Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes

B. ASTM D4060 Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser

C. ASTM D5420 Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by Means of a Striker Impacted by a Falling Weight (Gardner Impact)

E. ASTM E1428 Standard Test Method for Evaluating the Performance of Antimicrobials in or on Polymeric Solids Against Staining by Streptovorticillium Reticulum

D. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials

E. ASTM F-793 Standard Classification of Wall Coverings by Use Characteristics

F. ASTM G21-15 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi

G. ASTM G22 Standard Practice for Determining Resistance of Plastics to Bacteria

H. California Specification 01350 Standard Method for The Testing And Evaluation Of Volatile Organic Chemical Emissions From Indoor Sources Using Environmental Chambers.

I. California Department of Public Health CDPH/EHLB/Standard Method Version 1.2

I. NSF/ANSI 342 Sustainability Assessment for Wallcovering Product

##### 1.03 SUBMITTALS

A. Product Data: Submit manufacturer's product and specification data, including surface preparation and installation instructions.

B. Samples: Submit manufacturer's samples of each pattern and color of wall coverings specified minimum 3 inches by 4.5 inches.

C. Cleaning instructions: Submit manufacturer's instructions for Maintenance and Surface Cleaning.

D. Warranty documentation: Submit manufacturer's standard warranty.

##### 1.04 QUALITY ASSURANCE

A. Manufacturer's qualifications:

1. Manufacturer regularly engaged, for past 5 years, in manufacture of commercial wallcoverings.

B. Installer's qualifications:

1. Installer regularly engaged, for past 3 years, in installation of commercial wallcoverings.

2. Employ persons trained for installation of commercial wallcoverings.

**C. Pre-installation meeting:**

1. Convene pre-installation meeting before start of installation of advanced wall protection.
2. Check specified material to ensure that specified pattern/color(s) have been ordered.
3. Review surface preparation, testing for and eliminating sources of moisture accumulation into walls, installation, cleaning, protection, and coordination with other work.

**1.05 DELIVERY, STORAGE, AND HANDLING**

A. Delivery and acceptance requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

B. Storage and handling requirements:

1. Store and handle materials in accordance with manufacturer's instructions.
2. Keep materials in manufacturer's original, closed box packaging until installation.
3. Store materials in clean, dry area indoors, out of direct sunlight.
4. Keep materials clean and dry.
5. Store materials at normal occupied building temperature and humidity for a minimum of 3 days before installation.

**1.06 AMBIENT CONDITIONS**

A. Rooms to receive material: Weather tight with HVAC settings, including pressure, temperature, and relative humidity (65-80 degrees, 35-55% humidity), the same as those of occupied building for 3 days before installation, throughout installation, and for 3 days after installation.

**1.07 WARRANTY**

A. Warranty period: 5 years.

**PART 2 PRODUCTS****2.01 MANUFACTURER**

A. Manufacturer: J. Josephson, Inc., South Hackensack, NJ, [www.P3TECwall.com](http://www.P3TECwall.com)

B. Substitutions: Not permitted

**2.02 WALL PROTECTION**

A. P3TEC Advanced Wall Protection

1. Finished width: trims to 48 inches.
2. Low VOC emitting:
  - a. Meets California 01350 Specification for low VOC emissions.
  - b. California Department of Public Health CDPH/EHLB/Standard Method Version 1.2
3. Packaging: 15-yard rolls, shipped in box.

B. Physical Properties:

1. Material Thickness: .032" - .038" (varies by emboss and finish.)
2. PVF protective cap film.
3. Backing Type: Heavy Polyester/Cotton knit.



### C. Surface Properties

1. Impact Resistance ASTM D-5420 Gardner Drop Dart: 24 to 100+ inch-lbs
2. Abrasion Resistance ASTM D-4060 Taber CS-10f wheel (500 gram load): 200 cycles, 0.02% weight loss.
3. Chemical Resistance ASTM D-1308 (10 cleaning agents, 10 staining agents): after 7 days, no change.
4. Cleaning and Stain Resistance ASTM F-793 (10 cleaning agents, 10 staining agents): after 7 days, no change
5. Streptovorticillium Reticulum Stain Resistance ASTM E1428: No visible stain

### D. Fire Ratings

1. Surface burning characteristics, ASTM E 84: Class A.
  - a. Flame Spread Index: 10
  - b. Smoke Developed Index: 120.

### E. Environment and Health

1. Meets California 01350 Specification for low VOC emissions
2. Fungal Resistance, ASTM G-21: No growth
3. Bacterial Resistance, ASTM G-22: No growth
4. EPD: 3rd Party Certified
5. HPD: 3rd Party Certified
6. NSF/ANSI 342 Certified to Wallcovering Association Sustainability Standard
7. State of California, Proposition 65: No labeling required

### F. Design:

1. Pattern: Select from P3TEC pattern options
  - a. Color: Select from P3TEC color options
  - b. See P3TECwall.com

## 2.03 ACCESSORIES

### A. Corner guard:

1. Apply to outside corners

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Examine surfaces to receive material.
- B. Notify architect of conditions that would adversely affect installation or subsequent use.
- C. Do not begin surface preparation or installation until unacceptable conditions are corrected.

### 3.02 SURFACE PREPARATION

- A. Prepare surfaces in accordance with manufacturer's instructions.
- B. Remove existing wallcoverings, or other materials, including remaining adhesive.
- C. Contact manufacturer for installation to non-porous surfaces.
- C. Ensure walls are structurally sound, smooth, clean, and dry.
- C. Remove mold, mildew, dirt, oil, grease, stains, and marks.
- D. Repair wall irregularities.
- E. Test for and eliminate sources of moisture accumulation into wall or wall cavity.



- F. Apply primer to wall surfaces to receive wall protection, prior to installation, in accordance with manufacturer's instructions.
- G. NEVER apply primer over oil-based paint/primer.

### 3.03 INSTALLATION

- A. Install wall protection in accordance with manufacturer's instructions.
- B. Wall Preparation
  - 1. See 3.02
- C. Install a minimum of 3 strips of material for test.
  - 1. Inspect material and evaluate appearance for color uniformity and pattern match.
  - 2. Notify Architect and manufacturer if appearance is unacceptable.
  - 3. Do not begin main installation until unacceptable appearance is corrected.
- C. Install material under adequate lighting conditions.
- D. Install cuts of wall protection in roll sequence order.
- E. Install wall protection strips plumb.
- F. Apply adhesive to back of material in accordance with manufacturer's instructions
- G. Ensure materials have made good contact to wall, with no bubbles.
- H. Seams:
  - 1. Install wall protection seams vertical, with tight fit, using overlap/double-cut technique.
  - 2. Install wall protection seams free from air and paste bubbles.
  - 3. Do not locate seams closer than 6 inches to corners.
  - 4. Obtain commercial color match associated with patterns across seams.
  - 5. Do not wrap outside corners.
- H. Remove paste residue from wall protection, ceilings, and baseboards.
- I. Do not install wall protection over existing wallcoverings or other installed materials.

### 3.04 CLEANING

- A. Clean wall protection after installation, if necessary, in accordance with manufacturer's instructions.
- B. Do not use harsh abrasive cleaning materials, steel wool abrasive cleaners, metal bristled brushes, or methods that could damage material. SOLVENTS and STRONG DISINFECTANTS CAN BE USED in accordance with manufacturer's instructions.

### 3.05 PROTECTION

- A. Protect BOTH installed and UNINSTALLED wall protection from damage during construction.

### END OF SECTION