

## SECTION 08 87 33

### DECORATIVE WINDOW FILMS

#### PART 1 - GENERAL

##### 1.1 CONDITIONS AND REQUIREMENTS

- A. The section covers all interior decorative window film applications.

##### 1.2 RELATED SECTIONS

- A. Section 01 33 23 - Shop Drawings Product Data and Samples.

##### 1.3 REFERENCES

- A. ASTM International (ASTM):
  1. ASTM D882 - Standard Test Method for Tensile Properties of Thin Plastic Sheeting.
  2. ASTM D1044 - Test for Resistance of Transparent Plastics to Surface Abrasion (Taber Abrader Test).
  3. ASTM D4830 - Standard Test Methods for Characterizing Thermoplastic Fabrics Used in Roofing and Waterproofing. Section 7: Puncture Strength.
  4. ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials.
  5. ASTM E903 - Test Method for Solar Absorptance, Reflectance, and Transmittance of Materials Using Integrating Spheres.

##### 1.4 PERFORMANCE REQUIREMENTS

- A. Surface Burning Characteristics: Provide films that have Flame Spread Index of 0 and Smoke Developed Index of 30 or less when tested in accordance with ASTM E84.

##### 1.5 SUBMITTALS

- A. Submit under provisions of Section 01 33 23 Shop Drawings, Product Data, and Samples
- B. Manufacturer Literature and Data: Submit for each product specified indicating:
  1. Performance properties.

- C. Samples: For each type of decorative film specified, two (2) samples, 12 inches square.
- D. Operation and Maintenance Data: Submit for decorative film to include in maintenance manuals.
- E. Warranty: Submit sample special warranty specified in this section.

#### **1.6 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: A qualified manufacturer that has a minimum of 10 years of documented experience manufacturing decorative films similar to that used for this project.
- B. Installer Qualifications: A firm that is authorized by decorative film manufacturer to install film in accordance with guidelines set forth by the manufacturer.
- C. Source Limitations: Obtain each type of decorative film from same manufacturer.

#### **1.7 DELIVERY, STORAGE AND HANDLING**

- A. Deliver, store, and handle materials in manufacturer's protective packaging.
- B. Store and protect materials according to manufacturer's written recommendations to prevent damage from condensation, temperature changes, direct exposure to sun, or other causes.

#### **1.8 SITE CONDITIONS**

- A. Ambient Conditions: Maintain temperature, humidity, and ventilation within limits recommended by manufacturer.

#### **1.9 WARRANTY**

- A. Warranty subject to terms of "Warranty of Construction", FAR clause 52.246-21, except that warranty period shall be extended to two years.
- B. General Warranty: Special warranty specified in this Article shall not deprive the VA of other rights the VA may have under other provisions of Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of Contract Documents.

## **PART 2 - PRODUCTS**

### **2.1 DECORATIVE FILMS**

- A. Decorative Film:
  - 1. Film Color: Milky White

### **2.2 DECORATIVE FILM ACCESSORIES**

- A. General: Provide accessories either manufactured by or acceptable to decorative film manufacturer for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
- B. Adhesive: Pressure sensitive adhesive system as recommended by manufacturer.
- C. Cleaners, Primers, and Sealers: Types recommended by manufacturer.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Examine substrates for compliance with requirements and for conditions affecting performance of decorative film including glass that is broken, chipped, cracked, abraded, or damaged in any way.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### **3.2 PREPARATION**

- A. Comply with manufacturer's written instructions for surface preparation.
- B. Clean glass and frame thoroughly prior to installation.
- C. Prepare substrates using methods recommended by decorative film manufacturer to achieve the best results for the substrate under project conditions.
- D. Protect window frames and surrounding surfaces to prevent damage during installation.

### **3.3 INSTALLATION**

- A. Install in accordance with manufacturer's written instructions.
- B. Install film continuously. Install with no gaps or overlaps. Make seams non-overlapping.
- C. Do not remove release liner from film until just before each piece of film is cut and ready for installation.
- D. Install film with solution recommended by manufacturer and custom cut to the glass with neat, square corners and edges to within 1/8-inch of window frame.
- E. Remove air bubbles, blisters, and other defects. Be careful to remove "fingers" to eliminate any contamination or excess water pockets. It is crucial to remove as much water as possible during installation.
- F. Take a final squeegee pass over the entire pane with a hardness recommended by the manufacturer.

### **3.4 FIELD QUALITY CONTROL**

- A. After installation, view film from a distance of 10 feet against a bright uniform sky or background. Film shall appear uniform in appearance with no visible streaks, wrinkles, banding, thin spots or pinholes.
- B. If installed film does not meet these criteria, remove and replace with new film.

### **3.5 CLEANING AND PROTECTION**

- A. Remove excess mounting solution at finished seams, perimeter edges, and adjacent surfaces.
- B. Use cleaning methods recommended by manufacturer.
- C. Replace films that cannot be cleaned.
- D. Protect installed products until completion of project.

END OF SECTION