



## writeLITE (self adhesive film)

### specification guide

## Part 1 General

### 1.1 section includes

A. WriteLite

B. Related Sections

**Note:** Delete any section below not relevant to this project; add others as required.

1. Section 06 20 00 – Finish Carpentry
2. Section 06 40 00 – Architectural Woodwork
3. Section 09 29 00 – Gypsum Board: Gypsum wallboard back-up
4. Section 12 30 00 – Manufactured Casework

### 1.2 submittals

A. Manufacturer's Product Data for specified products.

B. Submit shop drawings showing layout, profiles, and product components, including dimensions, anchorage, and accessories.

C. Samples: 4 inch by 4 inch Samples of specified color and pattern for verification.

D. Submit operation and maintenance data for installed products, including precautions against harmful cleaning materials and methods.

E. LEED Requirements: Refer to Section 01-8112 and Section 01-8113 for information regarding VOC limits, recycled content, regional materials, and required documentation.

F. Submit Carbon Offset Credits for particular pattern. Certificate of Conformance with signed certificate of product compliance and carbon credits.

### 1.3 quality assurance

A. Obtain all products in this section from a single supplier.

B. Installer: Installation shall be performed by a trained and qualified installer, specialized and experienced in work required for this project.

C. Manufacturer Qualifications: Carbon credit (carbon offset credit) shall comply with the Kyoto protocol and use the established the Clean Development Mechanism (CDM), which validates and measures projects to ensure they produce authentic benefits and are genuinely "additional" activities that would not otherwise have been undertaken.



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#### 1.4 mock ups

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#### 1.5 product delivery, storage and handling

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- A. Deliver products in manufacturer's original, unopened, undamaged containers with identification labels intact.
- B. Store products protected from weather, temperature, and other harmful conditions as recommended by supplier.
- C. Product must remain in original plastic bag and boxes and have storage conditions as follows:
  - 1. 40°F (5°C) - 90°F (32°C) storage temperature range
  - 2. Out of Sunlight
  - 3. Clean dry area
  - 4. Original container
  - 5. Do not stack boxes over six (6) units high. Excessive weight can damage the film
  - 6. Relative humidity below 80 percent
  - 7. Handle products in accordance with manufacturer's instructions.
  - 8. Total pre-installation shelf life: 2 years. Up to 2 years unprocessed, OR process within 1 year and apply within 1 year of processing.

#### 1.6 project site/conditions

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- A. Confirm appropriate substrate is suitable for mounting of graphic film components prior to start of installation.
- B. Apply materials when environmental conditions are continuously heated. Application temperature range is 54° F to 100° F (12° C to 38° C).
- C. Environmental Limitations: Do not install until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

#### 1.7 warranty

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- A. Manufacturer's Warranty: Submit manufacturer's standard warranty document by authorized manufacturer.
- B. Standard Product Warranty: Refer to the applicable Manufacturer Technical Data Sheet for product warranty.



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#### 1.8 extra materials

- A. Furnish 2 percent extra material at time of installation. Deliver in protective packaging for storage and label contents appropriately.

### Part 2 Products

#### 2.1 manufacturer

- A. 3M Company - Architectural Markets Department [AMD]

3M Center, Building 0220-12-E-04  
St. Paul, MN 55144-1000, USA  
1-888-650-3497

- B. Material Standard: Design based upon WriteLite Architectural Finishes with pressure-sensitive adhesive and air release channels depending on individual part number specified.
- C. Design Standard: based upon WriteLite Architectural Finishes material.

#### 2.2 material properties

- A. General: [Wood grain] appearance and texture graphic film field applied application.
- B. Film: Polyester 6.7 mils (170 microns) thickness (thickness includes film and adhesive, excludes liner). Note: Please verify materials in each type of WriteLite specified.
- C. Liner: Polyethylene coated paper.
- D. Adhesive: Pressure-sensitive with air release channels, recommended by manufacturer.
- E. Fire-Test-Response Characteristics: Most types of WriteLite finishes have the following fire-test-response characteristics as determined by testing Products applied to substrates per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
  - 1. Surface-Burning Characteristics: As follows, per ASTM E84/UL-723:
    - a. Flame-Spread Index: 25 or less.
    - b. Smoke-Developed Index: 450 or less.



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  - 1. Surface-Burning Characteristics: As follows, per ASTM E84/UL-723:
    - a. Flame-Spread Index: 25 or less.
    - b. Smoke-Developed Index: 450 or less.
- F. Chemical and stain resistance: No visible changes with 24 hour exposure for Coffee, Tea, Cola, Milk, Red Wine, Ketchup, Soy Sauce, Oleic Acid Oil, Vinegar, Salt solution (1%), Soap solution (1%), Ammonia solution (10%), Oxygenated water (3%), Citrate solution (10%), Formalin (36%), Ethyl Alcohol 50%, Chloride (10%), or Sodium Hydroxide (10%).
- G. Application: [list location where product will be used].
  - 1. Design category: [fill in]

## Part 3 Execution

### 3.1 examination

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- A. Examine substrate(s) for compliance with requirements for non-porous, smooth surface and other conditions affecting the performance of work in this section. Do not proceed with installation until unsatisfactory conditions have been corrected.
- B. Refer to the applicable 3M Technical Data Sheet to determine compatibility of finish to substrate.
- C. Do not proceed with installation until unsatisfactory conditions have been corrected.
- D. Responsibility for state of surfaces prior to installation to be pre-determined by installation specialist.
- E. Scheduling of installation by Owner or its representative implies that substrate and conditions are prepared and ready for product installation per the recommendations of the installation specialist.
- F. Proceeding with installation implies installer's acceptance of substrate and conditions.



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## 3.2 surface preparation

- A. Comply with all manufacturers' instructions for surface preparation. Consider these factors in determining the suitability of the Product:
1. Substrate texture affects Product adhesion and application ease.
    - a. Unless the substrate is very smooth, its texture may be visible through Product.
    - b. Compounds used to smooth a textured substrate permanently change that substrate.
    - c. Product removal may damage the substrate or its finish.
  2. Application surface conditions affect Product adhesion.
    - a. Ensure that the existing paint, surface finish, or wall covering has excellent bond to the substrate area where Product will be applied.
    - b. Repair, prime and paint the substrate, as needed.
    - c. An adhesion promoter may be required to increase Product adhesion.
  3. Human and environmental conditions affect Product.
    - a. Temperature and humidity: constant or variable.
    - b. Direct UV light (sunlight).
    - c. Heating or cooling ducts in close proximity.
    - d. Unsealed substrates in front of water sources.
    - e. People or equipment that will be in contact with the Product.
  4. The Product may contain a splice. The location of the splices is marked with a tab along the edge of the Product. The installer will need to determine the impact of the splice and work around it to make the best use of the material layout.
- B. Thoroughly clean the substrate of any substances that could impair the overlay's bond, for example mold, mildew, oil, grease, incompatible primers and dirt. Use a cleaner that is compatible with the particular substrate.
- C. Prepare non-porous substrates to achieve a smooth, dry, clean surface, free of flaking, unsound coatings, cracks and defects.
- D. Finish sand surfaces to achieve proper adhesive bond surface.
- E. Re-clean surfaces with appropriate surface prep solvent and remove any haze or surface contamination.
- F. Tack-roll surface immediately prior to application.
- G. Prepare porous surfaces per instructions in the applicable Manufacturer Installation Guide, such as to ensure a Level 5 gypsum board finish. **NO EXCEPTIONS.**
- H. Apply proper surface sealer or adhesion promoter as required by the substrate's complexity.



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#### 3.3 application

- A. Application must be performed by qualified installer.
- B. Do not proceed with installation until all finishing work has been completed in and around the work area.
- C. Install substrates with no gaps, wire seams, or overlaps. Form smooth, wrinkle-free, bubble-free surface for finished installation.
- D. No exposed joints on corners or other "open" type joints permitted.
- E. Verify pattern prior to material acquisition as some part numbers do not allow three-dimensional forming.
- F. Comply with manufacturer's installation instructions applicable to products and applications indicated, except where more stringent requirements apply.
- G. Apply WriteLite over properly prepared substrates.
- H. Remove air bubbles, wrinkles, and blisters. Use approved procedures to prevent the formation of air bubbles, wrinkles, blisters and other defects.

#### 3.4 schedule

**Note:** When more than one type of WriteLite is specified in this section, it will be necessary to identify where each type is to be used. A schedule may be useful for that purpose, if the types are not to be indicated on the drawing. The following is a suggested format for such a schedule, with an example.

- A. Room:
- B. Fixture:
  - 1. Horizontal Surfaces Exposed to View: Design Category, Product number
  - 2. Vertical Surfaces Exposed to View: Design Category, Product number
  - 3. Semi-exposed Surfaces: Design Category, Product number
  - 4. Shaped Goods: Design Category, Product number
  - 5. Moldings: Design Category, Product number
- C. Shop Drawing Reference: In addition to original A/E elevations, the installation specialist may be asked to provide elevation views of installation surfaces to confirm design intent upon request.



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### 3.5 cleaning and protection

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- A. Use cleaning methods recommended by architectural surfacing manufacturer for applicable environment.
- B. Protect completed graphic film during remainder of construction period.
- C. Consult with authorized installation specialist for project specifics.

**END OF SECTION**