

INTERIOR SURFACING (ARCHITECTURAL FILM)

GENERAL

1.1 SUMMARY

A. Section Includes:

1. Architectural film interior surfacing for [walls] [ceilings] [columns] [soffits] [doors] [cabinets] [millwork] [casework] [paneling] [elevator doors] [elevator cabs] [_____] applied to [gypsum board] [melamine] [wood] [medium density fiberboard] [PVC foam board] [_____] surfaces.

B. Related Sections:

1. Division 01: Administrative, procedural, and temporary work requirements.
2. Section [06 2000 - Finish Carpentry] [____ - _____]: Millwork to receive surfacing.
3. Section [06 4100 - Architectural Wood Casework] [____ - _____]: Cabinets to receive surfacing.
4. Section [08 1113 - Hollow Metal Doors and Frames] [____ - _____]: Steel doors to receive surfacing.
5. Section [08 1416 - Flush Wood Doors] [____ - _____]: Wood doors to receive surfacing.
6. Section [09 2900 - Gypsum Board] [____ - _____]: [Walls] [ceilings] [columns] [soffits] [_____] to receive surfacing.
7. Section [12 3100 - Manufactured Metal Casework] [____ - _____]: Metal casework to receive surfacing.
8. Section [12 3200 - Manufactured Wood Casework] [____ - _____]: Wood casework to receive surfacing.
9. Section [14 2100 - Electric Traction Elevators] [____ - _____]: Elevator doors and cabs to receive surfacing.
10. Section [14 200 - Hydraulic Elevators] [____ - _____]: Elevator doors and cabs to receive surfacing.

1.2 REFERENCES

- A. ASTM International (ASTM) (www.astm.com) E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- B. Underwriters Laboratories, Inc. (UL) (www.ul.com):
 1. 723 - Test for Surface Burning Characteristics of Building Materials.
 2. 10B - Standard for Fire Tests of Door Assemblies.
 3. 10C - Standard for Positive Pressure Fire Tests of Door Assemblies.

1.3 SUBMITTALS

A. Submittals for Review:

1. Product Data: Manufacturer's descriptive data for architectural film surfacing and accessories.
2. Samples: [8 x 10] [____ x ____] inch architectural film surfacing samples showing specified color and finish.
3. Warranties: Sample warranty form.

B. Quality Control Submittals:

1. Certificates of Compliance: Certification that architectural film surfacing meets specified fire hazard classification requirements.

C. Closeout Submittals:

1. Maintenance Data: Include maintenance data for installed products, including recommended and harmful cleaning materials and methods.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Certified architectural film installer.
- B. Mockup:
 - 1. Size: Minimum [8 x 8] [__ x __] feet.
 - 2. Include: Architectural film surfacing and accessories. Include one seam.
 - 3. Locate [where directed.] [____.]
 - 4. Approved mockup may [not] remain as part of the Work.
- C. Pre-Installation Conference:
 - 1. Convene at site immediately prior to beginning work of this Section.
 - 2. Attendance: Architect, [Contractor,] [Construction Manager,] [Design/Builder,] architectural film surfacing certified installer, and related trades.
 - 3. Review and discuss:
 - a. Product delivery and storage, substrate requirements, installation schedule, and protection for completed work.
 - b. For gypsum board substrates, review types of seams to be used.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Protect architectural film surfacing from weather, temperature, and harmful conditions as recommended by manufacturer.
- B. Store architectural film surfacing in original plastic bags and boxes, at temperature between 40 and 95 degrees F and relative humidity below 80 percent.
- C. Do not stack boxes over six units high.
- D. Do not use materials beyond one year shelf life.

1.6 PROJECT CONDITIONS

- A. Do not install architectural film surfacing at temperatures below 50 degrees F or above 95 degrees F.

1.7 WARRANTIES

- A. Furnish architectural film surfacing material manufacturer's and distributor's 3 year warranty providing coverage for material and workmanship defects and specifically for: Reduced gloss, developed texture, decomposition, swelling, clouding, tackiness, crazing, bubbling, and cracking of architectural film surfacing.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Contract Documents are based on products by one or more of following manufacturers:
 - 1. Reatec by Koroseal.

- B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

2.2 MATERIALS

- A. Architectural Film Interior Surfacing:
 - 1. Description:
 - a. Architectural overlay with pressure sensitive adhesive backing.
 - b. Precision manufactured from blend of synthetic, engineered plastics, produced using

- calendaring process. and printed using high-definition presses.
- c. Thickness: Maximum 6 mils without adhesive layer, 8.5 mils with adhesive layer.
- 2. Fire hazard classification: Class A, tested to ASTM E84 and UL 723.
- 3. Fire door overlays: Meet UL 10B and 10C.
- 4. Pattern: [____.]

2.3 ACCESSORIES

- A. Gypsum Board Primer: White acrylic type; may be tinted to match architectural film pattern color.
- B. Gypsum Board Sealer: Semi-gloss paint.
- C. [Medium Density Fiberboard] [and] [Raw Wood] Sealer: [Oil based, low-luster polyurethane type.] [Acrylic, low-luster polyurethane type; Stays Clear by Benjamin Moore or approved substitute.]

PART 3 EXECUTION

3.1 EXAMINATION

- A. Ensure that substrates are:
 - 1. Nonporous and smooth.
 - 2. Free from gaps and overlaps.
 - 3. Smooth, free from wrinkles and bubbles.
- B. Gypsum Board Substrates; ensure that:
 - 1. Surfaces have Level 5 finish.
 - 2. Outside corners have crisp, sharp edges.
- C. Medium Density Fiberboard Substrates; ensure that:
 - 1. Corners are mitered.
 - 2. Fasteners are counter sunk 1/8 inch below finished surface.
 - 3. Joints and seams are flush.
- D. Melamine Substrates; ensure that:
 - 1. Corners are mitered.
 - 2. Fasteners are counter sunk 1/8 inch below finished surface.
 - 3. Joints and seams are flush.
 - 4. Raw edges are edge banded.

3.2 PREPARATION

- A. Comply with manufacturer's instructions for surface preparation.
- B. Coordinate substrate requirements with certified installer.
- C. Clean substrate; remove substances that could impair overlay bond, including mold, mildew, oil, grease, incompatible primers, and dirt.
- D. Finish sand surfaces to achieve proper adhesive bond surface. Re-clean surfaces after any sanding is complete. Apply proper surface sealer, primer, or secondary adhesive as required by substrate complexity. Protect prepared surface from contamination until application.
- E. Gypsum Board Substrate:
 - 1. Wipe surfaces clean; remove dust and loose matter. Must be done prior to priming and painting.
 - 2. Apply one coat of an acrylic gypsum board primer and allow to dry.
 - 3. Sand surfaces to smooth, consistent surface.
 - 4. Wipe primed surfaces clean; remove dust and loose matter.

5. Apply one coat of semi-gloss paint, being careful to minimize any streaks or lines. Use a ¼” fine nap roller to obtain a smooth, consistent surface.
 6. Allow paint to cure for 48 hours for best results.
 7. Do not use topping compound.
- F. Medium Density Fiberboard and Raw Wood Substrates:
1. Wipe surfaces clean; remove dust and loose matter.
 2. Apply one thick coat of low luster polyurethane sealer without lines and streaks; allow to dry.
 3. Sand surfaces to smooth, consistent surface.
 4. Wipe surfaces clean; remove dust and loose matter.
 5. Apply second coat of low luster polyurethane without lines and streaks; allow to dry. Sand surfaces to smooth, consistent surface.
 6. Wipe surfaces clean; remove dust and loose matter.
- G. Melamine and PVC Foam Board Substrates: Wipe surfaces clean; remove dust and loose matter.
- H. Existing Doors: Remove existing hardware, tag and save for reinstallation.
- I. Prepare other non-porous substrates to smooth, dry, clean surface, free of flaking, unsound coatings, cracks, and defects.

3.3 INSTALLATION

- A. Install architectural film surfacing using a certified installer in accordance with manufacturer's instructions.
- B. Install architectural film surfacing without gaps.
- C. If installation is on Gypsum Board, overlap seams are required.
- D. If using PVC Foam Board to create panels, a reveal of at least ¼” is preferred between panels. Paint or architectural film can be applied directly to the substrate in the reveal area.
- E. For three-dimensional components, heat product to mold to substrate so that pattern has continuous, realistic, even appearance.
- F. Remove air bubbles, wrinkles, blisters, and other defects.

3.4 CLEANING

- A. Consult with certified installer for specific cleaning requirements based on finish, substrate, and applicable environment.
- B. Clean completed surfaces in accordance with manufacturer's instructions.
- C. Do not use caustic, acidic, or abrasive cleaners.

3.5 PROTECTION

- A. Protect completed surfaces from damage using temporary nonstaining coverings recommended by surfacing manufacturer.

3.6 REPAIR

- A. Utilize certified installer to repair damaged architectural film using materials and procedures approved by architectural film manufacturer.

END OF SECTION