

SECTION 09 7700 IMAGED WALL AND CEILING PANELS

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Imaged Wall Panels.
- B. Imaged Ceiling Panels.
- C. Hardware.

1.2 RELATED SECTIONS

- A. Section 06 1000 - Rough Carpentry.
- B. Section 06 2000 - Finish Carpentry.
- C. Section 06 4100 - Architectural Wood Casework.
- D. Section 09 2116 - Gypsum Board Assemblies.
- E. Section 10 1400 - Signage and Art.
- F. Section 12 3600 - Countertops.

1.3 REFERENCES

- A. ASTM International (ASTM):
 - 1. ASTM B 557: Standard Test Methods for Tension Testing Wrought and Cast Aluminum- and Magnesium-Alloy Products.
 - 2. ASTM D 256: Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics.
 - 3. ASTM D 570: Standard Test Methods for Water Absorption of Plastics.
 - 4. ASTM D 696: Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics between -30 degrees C and 30 degrees C with a Vitreous Silica Dilatometer.
 - 5. ASTM D 792: Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement.
 - 6. ASTM D 2583: Standard Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor.
 - 7. ASTM E 84: Standard Test Method for Surface Burning Characteristics of Building Materials.

- B. American National Standards Institute (ANSI):
 - 1. ANSI A 161.1: Performance and Construction Standard for Kitchen and Vanity Cabinets.
- C. National Electrical Manufacturers Association (NEMA):
 - 1. NEMA LD3: High-Pressure Decorative Laminates.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 3000.
- B. Product Data: Include manufacturer's technical data sheets and published instruction instructions.
- C. Shop Drawings: Fully dimensioned shop drawings showing layouts and components, including edge conditions, substrate construction, and cutouts and holes. Include elevations, section details, and large scale details. Indicate color, pattern, and finish selections.
- D. Verification Samples: For each product specified, two samples, representing actual product, color, and patterns
- E. Maintenance Data: Manufacturer's published maintenance manual with closeout submittals.

1.5 QUALITY ASSURANCE

- A. Manufacturer: Minimum of 5 years' experience producing similar products.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
- B. Storage and Handling: Comply with manufacturer's recommendations for storage and handling. Protect from weather damage.
- C. Handling: Handle materials to avoid damage.

1.7 PROJECT CONDITIONS

- A. Preconditioning: Acclimatize products for 24 to 48 hours prior to fabrication. Precondition to occupancy conditions.

1.8 WARRANTY

- B. Warranty: Provide manufacturer's standard limited warranty against defects in manufacturing.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Basis-of-Design Manufacturer: ATI Decorative Laminates, 6106 West Market Street, Greensboro, NC 27409. Toll Free: 800-849-1320. Tel: 336-668-0488. Fax: 336-668-0713.
Email: info@advtechnology.com. Web: www.atilaminates.com.

2.2 IMAGED WALL AND CEILING PANELS

- A. Basis of Design: Fusion: Fused panel consisting of a graphic layer and substrate.
B. Graphics: [Stock image: _____] [Custom image].

SPECIFIER'S NOTE: CONSULT WITH MANUFACTURER TO DETERMINE THE BEST PRINTING METHOD FOR YOUR APPLICATION.

1. Printing Process: [Direct Digital] [Sublimation].

- C. Substrate: [Aluminum, White Ultra Matte] [Aluminum, White Ultra Gloss] [Aluminum, Mill Satin] [Aluminum, Pebbled] [Aluminum, Swirled (FusionSwirl)] [FRP, White Ultra Gloss] [FRP, White Ultra Matte] [Plywood] [Hardwood, Matte] [Hardwood, Gloss] [Aluminum Composite Panel, White Matte/ White Matte] [Aluminum Composite Panel, Brushed Silver/ Mill] [Clear PVC] [Digital Polycarbonate] [Direct Digital Acrylic] [High Impact Digital Styrene] [Translucent FRP (LuxCore Plus)].

1. Thickness: [0.025 inches (0.64 mm)] [0.030 inches (0.76 mm)] [0.032 inches (0.81 mm)] [0.045 inches (1.14 mm)] [0.060 inches (1.52 mm)] [0.75 inches (16.26 mm)] [0.090 inches (2.29 mm)] [0.118 inches (3 mm)] [0.120 inches (3.05 mm)] [0.125 inches (3.18 mm)] [0.220 inches (5.59 mm)] [_____].

SPECIFIER'S NOTE: BACKING IS OPTIONAL FOR TRANSLUCENT SUBSTRATES. DELETE IF NOT REQUIRED.

2. Backing: [White] [_____].

- D. Panel Height: [_____].

- E. Panel Length: [_____].

- F. Mounting: [_____].

SPECIFIER'S NOTE: DELETE IF NOT REQUIRED.

- G. Fusion Aluminum Properties:

1. Tensile Strength (ASTM B 557): 22.0 ksi.

2. Yield Strength (ASTM B 557): 20.7 ksi.
3. Elongation (ASTM B 557): 4.0 percent.
4. Abrasion Resistance, First Wear Point: 4,000 cycles.

SPECIFIER'S NOTE: DELETE IF NOT REQUIRED.

H. Fusion Swirl Properties:

1. Tensile Strength (ASTM B 557): 22.0 ksi.
2. Yield Strength (ASTM B 557): 20.7 ksi.
3. Elongation (ASTM B 557): 4.0 percent.
4. Abrasion Resistance, First Wear Point: 10,000 cycles.

SPECIFIER'S NOTE: DELETE IF NOT REQUIRED.

I. FusionWood Properties:

1. Scratch Resistance (Hoffman): 1500 grams.
2. Wear Resistance (LD3 301-180 grit): 250 cycles.
3. Impact Resistance (LD3-303 steel ball drop): 24 inches.
4. Boiling Water Resistance (LD3-305 boiling water container): No effect.
5. High Temperature Resistance (LD3-306 350 degree hot wax container): No effect.
6. Hot and Cold Check Resistance (ANSI A 161.1): No effect.
7. Stain Resistance (LD3-309): No effect.
8. Reagents (1-29): No effect.

SPECIFIER'S NOTE: DELETE IF NOT REQUIRED.

J. LuxCore and LuxCore Plus Properties:

1. Barcol Hardness (ASTM D 2583): 40.
2. Notched Izod Impact Resistance (ASTM D 256): 7.0 ft-lbs/in.
3. Thermal Coefficient of Lineal Expansion (ASTM D 696): 0.0000160 in/in/F.
4. Water Absorption (ASTM D 570): 0.17 percent.
5. Specific Gravity (ASTM D 792): 1.53.
6. Fire Rating (ASTM E 84): 0.045 inch thickness, Class A; 0.060 inch and above, Class C.
7. Abrasion (NEMA LD3-2005): 9,150 cycles.
8. Service Temperature for 48 inch Panels: 27 to 117 degrees F.
9. Service Temperature for 96 inch Panels: 50 to 94 degrees F.

SPECIFIER'S NOTE: HARDWARE IS FOR USE WITH LUXCORE ONLY. DELETE IF NOT REQUIRED.

2.3 HARDWARE

SPECIFIER'S NOTE: DELETE HARDWARE NOT REQUIRED.

- A. Aluminum Mounting Channel: Model No. 400.104.
- B. Channel Ceiling Connector: Model No. 400.105.
- C. Channel Floor Connector: Model No. 400.106.
- D. Swivel Bottom Mount, Kit: Model No. 400.117.
- E. Swivel Top Mount, Kit: Model No. 400.117.
- F. Fixed Ceiling Mount: Model No. 400.103.
- G. Side Mount Adjustable Shelf Clamp: Model No. 400.109.
- H. Side Mount Double Panel Clamp: Model No. 400.108.
- I. Top/Bottom Panel Mount Connector: Model No. 400.110.
- J. Side Mount Single Panel Clamp: Model No. 400.107.
- K. Hardware Cable, 13 feet: Model No. 400.100.
- L. 1-1/2 inch Brushed Stainless Standoff, 2 inch Barrel Length: Model No. 400.119.
- M. 1-1/2 inch Brushed Stainless Standoff, 3 inch Barrel Length: Model No. 400.125.
- N. 1-1/2 inch Brushed Stainless Standoff, 4 inch Barrel Length: Model No. 400.126.
- O. 1 inch Brushed Stainless Standoff, 2 inch Barrel Length: Model No. 400.118.
- P. 1 inch Brushed Stainless Standoff, 3 inch Barrel Length: Model No. 400.123.
- Q. 1 inch Brushed Stainless Standoff, 4 inch Barrel Length: Model No. 400.124.
- R. 3/4 inch Brushed Stainless Standoff, 2 inch Barrel Length: Model No. 400.120.
- S. 3/4 inch Brushed Stainless Standoff, 3 inch Barrel Length: Model No. 400.121.
- T. 3/4 inch Brushed Stainless Standoff, 4 inch Barrel Length: Model No. 400.122.
- U. Black Rubber Trim: Model No. 400.128.
- V. Brushed Aluminum Trim for 0.120 inch, 4 foot length: Model No. 400.130.

- W. Brushed Aluminum Trim for 0.120 inch, 8 foot length: Model No. 400.131.
- X. Brushed Aluminum Trim for 0.045 inch and 0.060 inch: Model No. 400.129.
- Y. Hex Keys, Set of Three: Model No. 400.111.
- Z. Cable Cutter: Model No. 400.112.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates for compliance with requirements for installation. Proceed with installation only after unsatisfactory conditions have been corrected.
- B. Commencement of work will constitute acceptance of existing conditions and surfaces to receive the work.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions and approved submittals.

3.4 CLEANING AND PROTECTION

- A. Clean surfaces in accordance with manufacturer's printed care and maintenance instructions.
- B. Protect installed products and finish surfaces from damage during remainder of construction period.

END OF SECTION