



# Thermally Fused Laminate (TFL) Guide Specification

**Panolam® Thermally Fused Laminate (TFL)** provides a high level of quality, combined with realistic wood grains, patterns and solid colors to make Panolam® TFL your first choice for furniture, fixtures and other products. Panolam® Thermally Fused Laminate (TFL) panels consist of a melamine-impregnated printed or solid-color décor sheets pressed directly into substrates such as particleboard or medium density fiberboard (MDF). Using heat and pressure, the resin from the décor layer melts and joins with the surface of the substrate to create a permanent bond. For more information, please visit our website [www.panolam.com](http://www.panolam.com) or call 888-292-4410.

## SECTION 064020 THERMALLY FUSED LAMINATE

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Provide thermofused laminates for interior horizontal and vertical surfaces and furnishings.
- B. Related Sections: Coordinate with work of other sections, including the following:
  - 1. Section 062023 – Interior Finish Carpentry.
  - 2. Section 064023 – Interior Architectural Woodwork.
  - 3. Section 064025 – High Pressure Laminates.
  - 4. Section 064116 – Plastic Laminate Faced Architectural Cabinets.
  - 5. Section 064219 – Plastic Laminate Faced Wood Paneling.
  - 6. Section 066400 – Plastic Paneling.
  - 7. Section 066401 – Fiber Reinforced Laminates.
  - 8. Section 102113 – Plastic Laminate Clad Toilet Compartments.
  - 9. Section 105123 – Plastic Laminate Clad Lockers.
  - 10. Section 123216 – Manufactured Plastic Laminate Faced Casework.
  - 11. Section 123553 – Plastic Laminate Clad Laboratory Casework.
  - 12. Section 123623 – Plastic Laminate Clad Countertops.

#### 1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's literature including product characteristics, accessories and limitations.
- B. Selection Samples: Submit samples of colors and finishes if requested by architect.
- C. Verification Samples: Submit samples of materials selected specified to verify color and finish.
- D. Industry Certifications and Standards: Submit copy of documentation indicating compliance.

### 1.3 QUALITY ASSURANCE

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

### 1.4 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials and products in unopened factory labeled packages. Store and handle in strict compliance with manufacturer's instructions and recommendations.

### 1.5 WARRANTY

- A. Manufacturer's Warranty: Provide manufacturer's standard warranty against defects in manufacturing.

## PART 2 - PRODUCTS

### 2.1 THERMALLY FUSED LAMINATE (TFL) PANELS

- A. Manufacturer: Panolam TFL; Panolam Industries International, Inc., 1 Corporate Drive, Suite 725, Shelton, CT 06484. Tel: 888-292-4410, Fax: 203-225-0050. Web: www.panolam.com. Panels shall comply with the following:
  - 1. Core Material: One of the following as selected:
    - a. Particleboard, M2
    - b. Particleboard, M3i.
    - c. ZCore urea-formaldehyde free particleboard with 100% recycled wood fiber.
    - d. Medium Density Fiberboard (MDF).
  - 2. Surface Burning Characteristics ASTM E84: Class C typical, Class A available based on UL approved substrate and adhesive.
  - 3. Wear Resistance to NEMA 3.13: 700-900 cycles solid colors, 200 cycles patterns/woods.
  - 4. Boiling Water Resistance to NEMA 3.5: No effect, dark colors may show slight effect.
  - 5. High Temperature Resistance to NEMA 3.6: Slight effect.
  - 6. Radiant Heat Resistance to NEMA 3.10: No effect after 80 seconds of exposure solid colors, No effect after 80 seconds of exposure patterns/woods.
  - 7. Stain Resistance to NEMA 3.4: No effect 1-10; no effect to slight effect 11-15.
  - 8. Cleanability of Surface to NEMA 3.4: 10.
  - 9. Light Resistance to NEMA 3.3: No effect to slight effect.
  - 10. Sheet Thickness: As selected from manufacturer's standard thicknesses (1/4" to 1-3/8").
  - 11. Sheet Width: As selected from manufacturer's standard widths of 30 inches (762 mm), 36 inches (914 mm), 48 inches (1219 mm), and 60 inches (1524 mm).
  - 12. Sheet Length: As selected from manufacturer's standard lengths of 96 inches (2438 mm), 120 inches (3048 mm) and 144 inches (3658 mm).
  - 13. Color: As selected by Architect from manufacturer's full range of TFL colors/patterns.
  - 14. Adhesive: Types as recommended by manufacturer.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Examine substrates for compliance with requirements for installation tolerances and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.

### **3.2 INSTALLATION**

- A. Install products in strict accordance with manufacturer's instructions and approved submittals. Clean substrate of dirt, dust, waxes, and other bond breaking substances prior to beginning installation.

### **3.3 ADJUSTING AND CLEANING**

- A. Replace installations out of plumb and not aligned with adjacent panels and construction.
- B. Clean panel face to remove soiling, stains, dust, and dirt using clean rags, and cleaning agents as instructed by manufacturer.
- C. Leave installation clean, free of residue and debris resulting from work of this section.

### **END OF SECTION**

THERMALLY FUSED LAMINATE

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