

HPL CSI 3-PART SPECIFICATION FORM

Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including MasterFormat, SectionFormat, and PageFormat, as described in The CSI Construction Specifications Practice Guide. This section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all "Specifier Notes" after editing this section. Section numbers and titles are from MasterFormat 2012 Update.

SECTION 06 05 60

HIGH-PRESSURE DECORATIVE LAMINATE

Specifier Notes: This section covers Lamin-Art, Inc. "Lamin-Art" high-pressure decorative laminate used for interior applications. Consult Lamin-Art, Inc. for assistance in editing this section for the specific application.

This section specifies the shop fabrication of high-pressure decorative laminate. If high-pressure decorative laminate is to be bonded to substrates in the field, move the Shop Fabrication Article from Part 2 to Part 3 and rename it Field Fabrication.

Installation of the completed products manufactured with the high-pressure decorative laminate is specified in other sections.

PART I - GENERAL

1.1 SECTION INCLUDES

A. High-pressure decorative laminate for interior applications.

1.2 RELATED REQUIREMENTS

Specifier Notes: Edit the following list of related sections as necessary. Limit the list to sections with specific information that the reader might expect to find in this section, but is specified elsewhere.

- A. Division 6 Section – Interior Finish Carpentry.
- B. Division 6 Section – Interior Architectural Woodwork.
- C. Division 8 Section – Interior Doors.
- D. Division 10 Section – Interior Specialties.
- E. Division 10 Section – Storage Specialties.
- F. Division 12 Section – Casework.
- G. Division 12 Section – Countertops.
- H. Division 12 Section – Furniture.
- I. Division 14 Section – Elevator Cab Finishes.

1.3 REFERENCE STANDARDS

Specifier Notes: List reference standards used elsewhere in this section, complete with designations and titles.

- A. ANSI A208.1 – Particleboard.
- B. ANSI A208.2 – Medium Density Fiberboard (MDF) for Interior Applications.
- C. ANSI/NEMA LD 3 – High-Pressure Decorative Laminates.
- D. ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
- E. AWI Architectural Woodwork Standards.

1.4 SUBMITTALS

Specifier Notes: Edit submittal requirements as necessary. Delete submittals not required.

- A. Comply with Section 01 33 00 – Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including inspection, preparation, fabrication, and installation instructions.
- C. Samples: Submit manufacturer's samples of each pattern, grade, and finish of high-pressure decorative laminate specified.

Specifier Notes: Specify size of samples of high-pressure decorative laminate.

- 1. Sample Size: Minimum [2 inches by 3 inches] [5 inches by 8 inches]
- D. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
 - 1. Greenguard certification.
- E. Manufacturer's Project References: Submit manufacturer's list of successfully completed high-pressure decorative laminate projects, including project name and location, name of architect, and type and quantity of high-pressure decorative laminate furnished.
- F. Fabricator/Installer's Project References: Submit fabricator/installer's list of successfully completed high-pressure decorative laminate projects, including project name and location, name of architect, and type and quantity of high-pressure decorative laminate fabricated and installed.
- G. Maintenance Instructions: Submit manufacturer's maintenance instructions.
- H. Warranty Documentation: Submit manufacturer's standard warranty.

1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Manufacturer regularly engaged, for past 10 years, in manufacture of high-pressure decorative laminate of similar type to that specified.
- B. Fabricator/Installer's Qualifications:
 - 1. Fabricator/installer regularly engaged, for past 5 years, in fabrication and installation of high-pressure decorative laminate of similar type to that specified.
 - 2. Employ persons trained for fabrication and installation of high-pressure decorative laminate.
- C. Material Source: Obtain high-pressure decorative laminate materials through single source from single manufacturer.

Specifier Notes: Describe mock-ups required. Delete if not required.

- D. Mock-ups:
 - 1. Construct mock-ups to:
 - a. Verify selection of pattern, grade, and finish of high-pressure decorative laminate.
 - b. Demonstrate quality of workmanship of fabrication and installation.
 - c. Establish quality standards to be used for judging workmanship of fabrication and installation.
 - 2. Construct mock-ups using same materials for use in the Work.
 - 3. Construct mock-ups at location determined by Architect.
 - 4. Do not proceed until mock-ups are approved by Architect.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage and Handling Requirements:
 - 1. Store and handle materials in accordance with manufacturer's instructions.
 - 2. Keep materials in manufacturer's original, unopened containers and packaging until fabrication and installation.
 - 3. Store materials in clean, dry area indoors.
 - 4. Store materials out of direct sunlight.
 - 5. Keep materials from freezing.
 - 6. Store high-pressure decorative laminate horizontally with top face-down and caul board placed on top to protect laminate from damage and warping.
 - 7. Store high-pressure decorative laminate and substrates at 75 degrees F (24 degrees C) and 45 percent to 55 percent relative humidity.
 - 8. Protect high-pressure decorative laminate from moisture and from contact with floors and exterior walls.
 - 9. Protect corners of high-pressure decorative laminate from damage.
 - 10. Protect materials during storage, handling, fabrication, and installation to prevent damage.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Manufacturer: Lamin-Art, Inc., 1670 Basswood Road, Schaumburg, Illinois 60173. Toll Free 800-323-7624. Phone 847-860-4300. Fax 847-860-9199. Website www.laminart.com. E-mail customerservice@laminart.com.
- B. Substitutions: Not permitted

2.2 MATERIALS

- A. High-Pressure Decorative Laminate: "Lamin-Art".
 - 1. Use: Interior applications.
 - 2. Conformance: NEMA LD 3.
 - 3. Certifications:
 - a. Greenguard Indoor Air Quality Certification Program for Low Emitting Products.
 - b. Greenguard Children & Schools Certification Program for Low Emitting Products.
 - c. New York City Department of Buildings, Report of Materials and Equipment Acceptance Division, MEA 382-07-M.
 - 4. Manufacturing Process:
 - a. Laminate phenolic resin-impregnated kraft sheets with melamine resin-impregnated decorative and overlay sheets.
 - b. Perform lamination under a minimum pressure of 1,000 psi (6,895 kPa) and at a temperature of approximately 300 degrees F (149 degrees C).
 - c. Sand pressed laminate to provide uniform thickness and to facilitate adhesive bonding.
 - d. Contains no added urea-formaldehyde.
 - 5. Post-Consumer Recycled Content:
 - a. Standard Grade, GP48: 11 percent.
 - b. Vertical Grade, GP28: 18 percent.

Specifier Notes: Standard "Lamin-Art" high-pressure decorative laminate is classified Class II in accordance with ASTM E 84. Fire-Rated Class I high-pressure decorative laminate is available as a special order item and is recommended for interior applications where the decorative surface must resist combustion and inhibit smoke production. Consult Lamin-Art, Inc. for more information, including availability and lead time, regarding Fire-Rated Class I high-pressure decorative laminate.

- 6. Fire Rating, ASTM E 84: [Class II] [Class I].

Specifier Notes: Specify pattern number and name of high-pressure decorative laminate.

- 7. Pattern Number: _____.
- 8. Pattern Name: _____.

Specifier Notes: Specify one of the following grades of high-pressure decorative laminate.

9. Grade: Standard Grade, GP48.
 - a. Thickness: 0.048 inch (1.2 mm).
10. Grade: Vertical Grade, GP28.
 - a. Thickness: 0.028 inch (0.7 mm).
11. Finish:

Specifier Notes: Specify finish of high-pressure decorative laminate. Delete finishes not required. Not all finishes are available for all laminates. Consult Lamin-Art, Inc. for availability of finishes for each laminate.

- a. Abaca: LRV 10.0.
 - b. Catalyst: LRV 18.0.
 - c. Chrysalis: LRV 10.0.
 - d. Corrugated: LRV 3.0.
 - e. Crisscross: LRV 10.0.
 - f. Fine Grain: LRV 9.0.
 - g. Gloss: LRV 100.0.
 - h. Satin: LRV 10.0.
 - i. Supermatte: LRV 2.0.
 - j. Textured: LRV 10.0.
 - k. Velva-Tex: LRV 16.0.
12. Edge:

Specifier Notes: Specify edge of high-pressure decorative laminate. Delete edges not required.

- a. Self-edge.
- b. Solid edge.
- c. Miter-fold edge.
- d. PVC tape matching laminate in pattern and finish.
- e. PVC T-mold matching laminate in pattern and finish.
- f. PVC edge banding matching laminate in pattern and finish.
- g. Custom.

Specifier Notes: Specify optional special order items for high-pressure decorative laminate, if applicable. Delete items not required. Consult Lamin-Art, Inc. for more information regarding special order items.

13. Special Order Items:
 - a. "Oyster Shield" high-wear protection.
 - b. Post-forming grade.
- B. Substrates:
 1. Acceptable Substrates:
 - a. 45-pound-density particleboard, ANSI A208.1.
 - b. Medium-density fiberboard (MDF), ANSI A208.2.
 - c. High-density fiberboard (HDF).
 2. Substrates Not Acceptable:
 - a. Plywood.
 - b. Plaster.
 - c. Gypsum board.
 - d. Concrete.

C. Adhesives: Use for bonding high-pressure decorative laminate to substrates.

1. Contact adhesive.
2. Polyvinyl acetate resin (PVA) adhesive.
3. Urea adhesive.
4. Resorcinol resin adhesive.
5. Hot-melt adhesive.
6. Epoxy adhesive.

D. Backing Sheets:

1. Kraft-paper core sheets impregnated with phenolic resin.
2. As necessary to balance assembly and prevent warping.

2.3 SHOP FABRICATION

A. Inspection:

1. Inspect high-pressure decorative laminate surfaces before lamination to ensure they are sound, dry, clean, and free of surface defects.
2. Remove protective peel, if applicable, before inspection.
3. Correct defects before lamination.

B. Preparation:

1. Sand and prepare substrates and high-pressure decorative laminate as required to provide a smooth and clean surface that is free of dirt, dust, moisture, oil, grease, or other impurities that would interfere with adhesion.
2. Ensure substrates are uniform in thickness and free of defects.

C. Fabrication:

1. Ensure materials, equipment, and workmanship are in accordance with:
 - a. ANSI/NEMA LD 3.
 - b. AWI Architectural Woodwork Standards.
2. Bond high-pressure decorative laminate to substrates using adhesives in accordance with adhesive manufacturer's instructions.
 - a. Do not use pressure greater than 45 psi to avoid starved glue line or telegraphing of substrates.
3. Minimize excessive moisture imbalance between high-pressure decorative laminate and substrates by acclimating materials for a minimum of 72 hours before fabrication at same ambient conditions of approximately 75 degrees F (24 degrees C) and 45 percent to 55 percent relative humidity.
4. Provide air circulation around high-pressure decorative laminate and substrates during preconditioning.

D. Cleaning:

1. Clean high-pressure decorative laminate promptly after fabrication in accordance with manufacturer's instructions.
2. Do not use harsh cleaning materials or methods that could damage laminate.

E. Protection: Protect fabricated high-pressure decorative laminate from damage.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Refer to other sections for installation of completed products made with fabricated high-pressure decorative laminate described in this section.

Specifier Notes: Delete the following Article if a High-Pressure Decorative Laminate Schedule is not required or if the schedule is on the Drawings. Coordinate the schedule with the high-pressure decorative laminate specified in Part 2 – Products of this section.

3.2 SCHEDULES

A. High-Pressure Decorative Laminate Schedule: