



## SECTION 06 4226 | DECORATIVE ENGINEERED VENEER

This Section specifies New Leaf® decorative engineered veneer surface designed to overcome longstanding challenges in traditional wood veneer fabrication for high performance products. New Leaf offers exceptional durability and color consistency, of paramount importance for wood veneers. Additionally, higher material yields and very low emissions have been achieved.

Anywhere traditional wood veneers are used, New Leaf offers a better alternative. This product line is a significant upgrade for an array of applications, including casework, millwork, doors, and fixtures.

New Leaf Performance veneers provide superior performance in a number of critical areas, including long term color retention without fade and surfaces highly resistant to scratching, impact sources, and moisture.

New Leaf Performance veneers are produced from reproductions of premium wood species and cuts. Every veneer has FSC certification available.

Section Editing: Informational notes will appear as "Editing Note" text boxes throughout this Section.

Bracketed bold text will require a selection to be made or information to be inserted.

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### PART 1 - GENERAL

#### 1.01 SECTION INCLUDES

- A. Engineered decorative veneer for interior surfaces applications.
- B. Core materials.
- C. Adhesives.

#### 1.02 RELATED REQUIREMENTS

**EDITING NOTE:** Section listings below are common references and based on the broadly accepted CSI Master-Format® for Section numbers and titles. Revise to suit requirements for particular project.

- A. Section 01 3300 - Submittal Procedures.
- B. Section 06 4113 - Wood-Veneer-Faced Architectural Cabinets.
- C. Section 06 4214 - Stile and Rail Wood Paneling.
- D. Section 06 4216 - Flush Wood Paneling.
- E. Section 08 1416 - Flush Wood Doors.
- F. Section 08 1433 - Stile and Rail Wood Doors.
- G. Section 12 3530 - Residential Casework.



## 1.03 REFERENCES

EDITING NOTE: Revise Reference Standards to suit Project requirements.

### A. Reference Standards:

1. ANSI: American National Standards Institute.
2. ANSI A208.1: Particleboard.
3. ANSI A208.2: Medium Density Fiberboard (MDF) For Interior Applications.
4. ANSI/NEMA LD-3: High Pressure Decorative Laminates.
5. ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials.
6. AWI: Architectural Woodwork Institute.
7. AWMAC: Architectural Woodwork Manufacturers Association of Canada.
8. AWS: Architectural Woodwork Standards.
9. FSC: Forest Stewardship Council.
10. NEMA: National Electrical Manufacturers Association.
11. NEMA LD-3: High Pressure Decorative Laminates.
12. WI: Woodwork Institute.

## 1.04 SUBMITTALS

A. General: Submit under provisions of Section 01 3300 - Submittal Procedures.

### B. Product Data:

1. Product data for each specified product. Include manufacturer's technical data sheets and published instruction instructions.

C. Shop Drawings: Fully dimensioned shop drawings showing layouts and components, including edge conditions, joinery, terminating conditions, and substrate construction. Include elevations, section details, and large scale details. Indicate wood species, grade, and finish selections; include product no(s).

D. Samples: Selection and verification samples for each wood species, grade, and finish required. Submit in manufacturer's standard sample sizes.

### E. Quality Assurance Submittals:

1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties, if required.
2. Qualifications: For Installer.



## 1.05 QUALITY ASSURANCE

A. Installer Qualifications: Minimum of three years documented installation experience for projects similar in scope and complexity to this Project.

B. Mock-Ups: Construct mock-ups with same materials to be used in the Work.

**EDITING NOTE:** Select mock-up size option. Delete entire paragraph if mock-ups are not a project requirement.

1. Construct mock-ups to:

- a. Verify selection of product number and finish for decorative engineered veneer.
- b. Demonstrate quality of workmanship for fabrication and installation.
- c. Establish Project quality standards to be used for judging fabrication and installation workmanship.

2. Mock-Up Size: [\_\_\_\_\_] by [\_\_\_\_\_].

3. Mock-Up Size: Indicated on Drawings.

4. Mock-Up Location: [Indicated on Drawings] [As directed by Architect].

5. Maintain mock-up during construction for fabrication and installation comparison. If required, remove and legally dispose of mock-up when no longer required.

6. Do not proceed with the Work until mock-ups are approved by Architect.

7. Incorporation: If permitted by Architect, mock-up may be incorporated into as part of the completed Work.

## 1.06 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver decorative engineered veneer materials to site in manufacturer's original unopened containers and protective packaging with identifying labels intact.

B. Storage, Handling, and Protection: Comply with manufacturer's written instructions.

1. Keep materials in manufacturer's original unopened containers and protective packaging until time of fabrication and installation.
2. Store materials in a clean, dry indoor area, out of direct sunlight. Keep materials from freezing and heat sources.
3. Store decorative engineered veneer horizontally, back-to-back, face-to-face, with top sheet turned face-down. Provide suitable top board protection to prevent damage and reduce chance of top sheet warpage.
4. Protect decorative engineered veneer from contact with floors and exterior walls.
5. Protect decorative engineered veneer corners from damage.

## 1.07 PROJECT CONDITIONS

A. Environmental Requirements: Store decorative engineered veneer for 8 to 10 days prior to fabrication at 64 deg F to 72 deg F and 50 percent to 60 percent relative humidity.

B. Field Measurements: Verify actual measurements by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.



## PART 2 - PRODUCTS

NEW LEAF CONTACT INFORMATION: New Leaf, 2501 Wilsonart Drive, Temple, TX 76504.

Website: [www.newleafveneers.com](http://www.newleafveneers.com)

### 2.01 MANUFACTURER

A. Basis of Design Product: "New Leaf" Performance Veneer; New Leaf.

EDITING NOTE: Refer to the New Leaf website for complete information on engineered veneer properties, including compliance with additional standards and physical performance properties.

### 2.02 MATERIALS

A. Decorative Engineered Veneer: Reproduced veneers impregnated with a protective polyurethane and fused with melamine resin-impregnated kraft sheets. Product does not contain urea formaldehyde. All engineered veneers are available FSC certified.

1. Manufacturing Process: Laminations performed under minimum 500 psi pressure at a temperature of 250 deg F. Engineered veneers pressed and sanded to provide uniform thickness and facilitate adhesive bonding.

EDITING NOTE: Standard New Leaf is classified as a Class II fire-rated material according to ASTM E84. Contact New Leaf for additional information, including lead time and availability.

2. Surface Burning Characteristics: [Class II] [Class I]; ASTM E84.

3. Species Product Number: [\_\_\_\_\_].

4. Species Name: [\_\_\_\_\_].

5. Grade: "New Leaf" Grade GP30.

6. Thickness: 0.030 inch.

7. Finish: [Matte] [Semi-Gloss].

8. Edge Profile(s): [Edge Banding] [Self-Edge] [Solid Edge] [Miter-Fold Edge] [Custom].

EDITING NOTE: Solid lumber, plaster, gypsum board, underlayment materials, and concrete are unacceptable substrates.

B. Acceptable Substrates:

1. Particleboard: Minimum 45 lb. density; ANSI A208.1.

2. Medium-Density Fiberboard (MDF): ANSI A208.2.

3. High-Density Fiberboard (HDF).



C. Adhesives: For bonding decorative engineered veneer to substrates. The following adhesives are acceptable:

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: Kraft-paper core sheets impregnated with phenolic resin. Required to balance assembly and prevent warping.

## 2.03 SHOP FABRICATION

A. Inspection: Inspect decorative engineered veneer before lamination to ensure they are sound, dry, clean, and free of surface defects. Remove protective peel, if applicable, before inspection. Correct all defects before lamination.

B. Preparation: Sand and prepare substrates and decorative engineered veneer 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. Ensure substrates are uniform in thickness and free of defects.

C. Fabrication: Ensure materials, equipment, and workmanship complies with ANSI/NEMA LD 3 and AWI/AW-MAC/WI AWS.

1. Preconditioning: Minimize excessive moisture imbalance between decorative engineered veneer and substrates while preconditioning materials for 8 to 10 days before fabrication at 64 deg F to 72 deg F and 50 percent to 60 percent relative humidity. Provide air circulation around engineered veneer and substrates during preconditioning.
2. Bond engineered veneer using specified adhesives according to adhesive manufacturer's written instructions. Do not use pressure greater than 45 psi to avoid starved glue line or telegraphing of substrates.
3. Machine factory edges before seaming and clean thoroughly with denatured alcohol.
4. Sealing Edges and Seams: Seal exposed edges and seams of decorative engineered veneer with diluted urethane or clear varnish to prevent moisture penetration/absorption and expansion and contraction which could damage veneer.

D. Cleaning: Clean decorative engineered veneer promptly after fabrication according to manufacturer's written instructions. Do not use harsh cleaning materials or methods that could damage decorative engineered veneer.

E. Protection: Protect fabricated decorative engineered veneer from damage.



## PART 3 - EXECUTION

### 3.01 INSTALLATION

A. Refer to other Specification Sections for installation of completed products fabricated with engineered veneer.

### 3.02 SCHEDULE

OPTION: A schedule for decorative engineered veneer designs and wood species, grade, and finish selections may be inserted here if this option is chosen.

—— END OF SECTION 06 4226 ——