

SECTION 09 7716

DECORATIVE PLANK WALL AND CEILING SYSTEMS

(Standard Planks – Wood Veneer and High-Pressure Laminate)

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Factory-fabricated linear decorative planks consisting of a solid wood fiber substrate faced with wood veneer or high-pressure laminate with a balancing backer sheet, together with the concealed mounting hardware, furring, trim, and accessories required for installation on [walls] [ceilings] [walls and ceilings].
 - 1. Product: AAPG Standard Planks.
 - 2. Facings: [Real Wood Veneers LLC “AA” architectural veneer.] [High-pressure laminate.]
 - 3. This Section covers non-acoustic planks. For perforated planks providing sound absorption, refer to Section 09 8413 - Acoustic Planks.
- B. Products Not Furnished or Installed Under This Section:
 - 1. Blocking, backing, and structural support for plank attachment.
 - 2. Drywall or gypsum board, substrate preparation, and priming.
 - 3. Wood veneer casework.

1.2 RELATED SECTIONS

- A. Section [] - Rough Carpentry (blocking and backing).
- B. Section [] - Wood and Metal Stud Framing.
- C. Section [] - Gypsum Wallboard.
- D. Section [] - Painting and Transparent Finishes.
- E. Section [] - Resilient Base.
- F. Section 09 7710 - Framed Decorative Panel Systems (Panawall®).
- G. Section 09 8413 - Fixed Sound-Absorptive Panels (Acoustic Planks).

1.3 REFERENCES

- A. ASTM International (ASTM):
 - 1. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- B. American National Standards Institute (ANSI):
 - 1. ANSI A208.2 - Medium Density Fiberboard (MDF) for Interior Applications.
- C. National Electrical Manufacturers Association (NEMA):
 - 1. NEMA LD 3 - High-Pressure Decorative Laminates.
- D. Architectural Woodwork Standards, as jointly published by AWI, AWMAC, and WI, Edition 1.

1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's data for each product specified, including plank profiles, edge details, mounting hardware, preparation instructions, and installation methods.
- B. Shop Drawings: Submit elevations and reflected ceiling plans indicating plank layout, direction, dimensions, end joint and stagger pattern, reveal widths, furring and hardware locations, and the treatment of all edges, penetrations, and transitions.
- C. Selection Samples: Submit manufacturer's standard color, veneer, and pattern selection samples representing the full range of available finishes.
- D. Samples for Verification: Submit one plank sample, minimum 12 inches (305 mm) long and full width, for each facing selected, showing the edge profile and reveal treatment.
 - 1. Wood Veneer: Submit sample sets showing the full range of normal color and texture variation expected.

- 2. High-Pressure Laminate: Submit samples of each type and color.
- E. Fire-Test Data: Submit independent test reports showing surface burning characteristics of the finished plank in accordance with ASTM E84.
- F. Safety Data Sheets (SDS): Submit manufacturer's Safety Data Sheets for adhesives, sealants, and other pertinent materials prior to their delivery to the site.
- G. Maintenance Instructions: Submit manufacturer's cleaning and maintenance instructions, including instructions for removing and replacing individual planks.

1.5 QUALITY ASSURANCE

- A. Single-Source Responsibility: Obtain planks, hardware, and trim from a single manufacturer.
- B. Surface Burning Characteristics: Comply with building code requirements for interior finish for smoke and flame spread when tested in accordance with ASTM E84.
 - 1. Required Rating: [Class A (Class 1).] [Class C.]
- C. [Mockup: Provide a mockup of not less than 32 square feet (3 m²), including a typical end joint and a typical edge condition, for review. Approved mockup may remain as part of the Work.]

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver units and associated materials factory-packaged on sturdy pallets, properly packaged and protected against soiling, moisture, and physical damage.
 - 1. Upon delivery, carefully inspect all cartons, packages, pallets, and protective wrap for damage or material shortage.
 - 2. Immediately report any damaged or missing materials to the shipper and to AAPG.
 - 3. Do not commence installation if any components are missing or damaged.
 - 4. Contact AAPG with any questions, problems, or concerns.
- B. Storage: Store products flat, in the manufacturer's unopened packaging, in a clean, dry, conditioned interior space until ready for installation. Do not store units on edge or beneath other materials.
- C. Handling: Handle units with clean, dry hands or gloves to avoid soiling finished faces. Maintain protective wrap in place during on-site handling until ready for installation. Do not drag or stack units face-to-face after removal of protection.
- D. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with the requirements of authorities having jurisdiction.
- E. Store planks flat and fully supported along their length. Do not store on edge or allow long planks to bow.

1.7 PROJECT CONDITIONS

- A. Wood composite and laminate products are subject to the effects of humidity and temperature. Do not use in exterior, high-humidity, or wet locations.
- B. Do not install units until all wet work is complete and dry, the building is enclosed and weathertight, and the HVAC system is operating and balanced to normal operating conditions.
- C. Environmental Conditions: Maintain temperature, humidity, and ventilation within the limits recommended by the manufacturer. To ensure product performance, maintain a temperature range of 60 to 80°F (16 to 27°C) and a relative humidity range of 35 to 55 percent during storage, installation, and the product life cycle. Follow the environmental guidelines specified by AWI.
- D. Partition walls shall be finished and the building completely closed. Walls shall be thoroughly dry, and concrete shall be cured and dry, before installation begins.
- E. Where planks are installed on ceilings, do not begin installation until all overhead work is complete and inspected.

1.8 COORDINATION AND SEQUENCING

- A. Except as specified by the Architect, locate plank joints and trim members so that plank lines coordinate with doors, headers, jambs, and other discontinuities.
- B. Provide a vapor barrier on exterior walls behind the backing to discourage warping.
- C. Coordinate with lighting, sprinklers, air devices, and other penetrations so that cut-outs fall within planks as indicated.

1.9 WARRANTY

- A. Manufacturer's Warranty: Submit the manufacturer's standard written warranty covering materials and workmanship against defects for a period of [one (1) year] from the date of installation.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Acceptable Manufacturer: American Architectural Products Group (AAPG), 248 James Street, Venice, FL 34285. Telephone: +1-844-307-9571. Email: pwest@aapgco.com.
- B. Product: AAPG Standard Planks.
- C. Distributor: Koroseal Interior Products, 1111 Medina Road, Medina, OH 44256. Telephone: 855-753-5474. Email: info@koroseal.com.

2.2 SUBSTITUTIONS

- A. [No substitutions permitted.] [Substitutions permitted in accordance with Section 01 25 00 - Substitution Procedures.]

2.3 PLANKS

- A. Plank Configuration:
 - 1. Face Width: Nominal 7-1/4 inches (184 mm)
 - 2. Length: Nominal 96 inches (2438 mm)
 - 3. Thickness: 3/4 inch (19 mm)
- B. Wood Fiber Substrate: Medium-density fiberboard (MDF) conforming to ANSI A208.2, industrial grade, [comprising not less than 75 percent recycled wood waste] [with No Added Formaldehyde].
- C. Edge Profile: [Square edge, tight joint.] [Square edge with open reveal.] [Tongue-and-groove.] [Shiplap.] [Beveled.]
 - 1. Reveal Width: 1/4 inch (6 mm)
 - 2.
- D. Wood Veneer Planks: Real Wood Veneers "AA" architectural-grade wood veneer laminated to the wood fiber substrate and coated with a furniture-grade catalyzed finish as a protective topcoat.
 - 1. Edges: Square cut and sealed.
 - 2. Balancing Backer: Wood veneer measuring between 0.015 inch (0.38 mm) and 0.025 inch (0.64 mm).
 - 3. Veneer Face: 0.010 inch (0.25 mm) to 0.015 inch (0.38 mm), with a catalyzed finish of approximately 0.003 inch (0.08 mm).
 - 4. Species and Cut: [] [As selected by the Architect from the manufacturer's selection.]
 - a. Grain Direction: Along the length of the plank unless otherwise indicated.
 - 5. Matching: [Book matched and sequence matched within each wall or ceiling plane.] [Random matched.] [As indicated on the Drawings.]
 - 6. [Wood veneer stained to match approved submittal.] [Natural finish with clear topcoat.]
- E. High-Pressure Laminate Planks: Vertical-grade high-pressure plastic laminate complying with NEMA LD 3, adhered to the wood fiber substrate.

1. Edges: Square, and edged to match the face.
2. Balancing Backer: Kraft paper.
3. Color and Pattern: [] [As selected by the Architect from the manufacturer's standard selection.]
4. Grain Direction: [Along the length of the plank.] [As indicated on the Drawings.]

F. [] Planks: [].

2.4 MOUNTING HARDWARE AND ACCESSORIES

- A. Mounting Method: [Concealed clip system on aluminum carrier rails.] [Concealed spline and clip on wood or metal furring.] [Tongue-and-groove with concealed fasteners.] [Direct mechanical fastening with concealed heads.]
- B. Carrier Rails and Furring: [Extruded aluminum carrier rail, factory-finished.] [Manufacturer's standard furring.] Space in accordance with the manufacturer's instructions and the plank length and thickness.
- C. Fasteners and Anchors: Corrosion-resistant, of the type and size recommended by the manufacturer for the substrate.
- D. Trim and Accessories: Provide perimeter trim, end caps, transitions, and closure pieces as required for a complete installation, factory-finished to match adjacent planks.

2.5 ADHESIVES

- A. Faces applied with PVA adhesive, as recommended by the manufacturer.

2.6 FABRICATION

- A. Factory-finish all planks, hardware, and accessories ready to install, except for field fabrication required by jobsite and perimeter conditions.
 1. Mill plank edges straight and true, with uniform width and consistent profile along the full length.
 2. Refinish field-cut plank ends and edges in accordance with the manufacturer's instructions before installation.
 3. At all cut-outs, drill corners to a minimum 1/8-inch (3 mm) radius.
 4. Sequence and mark planks to maintain veneer color and grain progression as shown on the shop drawings.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Installer's Examination: Examine the substrates and conditions under which the Work of this Section is to be performed. Submit written notification to the Architect and the system manufacturer if such conditions are unacceptable. Beginning installation constitutes the installer's acceptance of conditions.
 1. Verify that a vapor barrier has been provided on exterior walls behind the backing to prevent warping.
 2. Verify that backing panels are smooth, solid, and flat, and that all drywall joints are taped and finished.
 3. Verify that walls are primed before installation begins, and that surfaces visible through reveals are finished as indicated.
 4. Verify that sufficient blocking, backing, and furring are provided at the spacing required for the plank length and thickness.
 5. Verify that mechanical, electrical, and building service items affecting the Work of this Section are placed and ready to receive this Work.

3.2 PREPARATION

- A. Conditioning: Allow planks to acclimate to a balanced environment in the installation location for 72 hours prior to installation. Ensure moisture content in the planks is in line with AWI standards
- B. Protect existing surfaces with drop cloths.
- C. Except as directed by the architectural Drawings, examine planks before installing and arrange them to achieve the best combination of color, pattern, texture, and grain. For book-matched planks, follow the sequence provided by the manufacturer.

3.3 INSTALLATION

- A. Install planks in strict accordance with the manufacturer's installation instructions, straight, level, plumb, and true to line.
 - 1. Install carrier rails or furring level and true, at the spacing required by the manufacturer, anchored securely to blocking or solid substrate.
 - 2. Set out the plank layout from the approved shop drawings; balance the layout so that partial planks at perimeters are of equal and acceptable width.
 - 3. Stagger end joints as indicated; where a random pattern is specified, avoid a repeating or visually banded arrangement.
 - 4. Maintain uniform reveal widths and consistent grain direction across adjacent planks.
 - 5. Anchor units rigidly and securely in place; cut planks to meet existing supports.
- B. Fasten vertical and horizontal trim using #6 trim-head screws anchored into a stud or other solid substrate at 16 inches (406 mm) on center.
- C. Installation Tolerances: Install plank faces flush and aligned, with a maximum variation of 1/16 inch (1.6 mm) between adjacent planks, uniform reveal width within 1/32 inch (0.8 mm), and 1/8 inch in 8 feet (3 mm in 2.4 m) from level, plumb, and line.
- D. Avoid contamination of the plank faces with adhesives, solvents, or cleaners during installation.

3.4 CLEANING AND PROTECTION

- A. Clean and remove dust and other foreign matter from plank surfaces and reveals. Clean finishes in accordance with the manufacturer's instructions; do not use solvents or abrasive cleaners.
- B. Protect installed planks from damage and soiling until Substantial Completion.

END OF SECTION 09 7716