

SECTION 06 4216

PHENOLIC-FACED ARCHITECTURAL PLANKS

(Lineawood Phenolic Planks – Phenolic-Faced Architectural Wall and Ceiling Systems)

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Factory-fabricated phenolic-faced architectural slatted planks for interior walls and ceilings, including planks, concealed or exposed attachment components, trims, accessories, and related installation materials.
- B. Related Requirements:
 - 1. Section 06 10 00 - Rough Carpentry: Wood blocking and furring.
 - 2. Section 09 21 16 - Gypsum Board Assemblies: Substrates behind architectural planks.
 - 3. Section 09 91 00 - Painting: Field finishing of adjacent construction.
 - 4. Division 26 - Electrical: Coordination of devices, lighting, and penetrations.

1.2 REFERENCES

- A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials, where required by authorities having jurisdiction.
- B. ANSI/NEMA LD 3 - High-Pressure Decorative Laminates, as applicable to phenolic decorative surfacing.
- C. AWI Architectural Woodwork Standards, latest edition, for workmanship and installation practices where applicable.
- D. ISO 16000 series / Finnish Emission Classification M1, where documented for the supplied assembly.

1.3 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Conference: Conduct at Project site before installation. Review substrates, blocking, environmental conditions, layout, penetrations, terminations, lighting coordination, fasteners, and protection.
- B. Coordination: Coordinate panel module, joint locations, access panels, electrical devices, mechanical grilles, sprinklers, and other penetrations before fabrication.

1.4 SUBMITTALS

- A. Product Data: Manufacturer literature describing plank construction, dimensions, finish, substrate, accessories, installation, cleaning, and limitations.
- B. Shop Drawings: Show plans, elevations, reflected ceiling plans, panel orientation, module, joint layout, attachment, perimeter conditions, inside and outside corners, penetrations, and transitions.
- C. Samples:
 - 1. Finish Samples: Minimum 8 by 10 inches, showing specified phenolic finish and black reveal condition.
 - 2. Profile Sample: Full-width plank section, minimum 12 inches long, showing slat profile, spacing, base, edge, and attachment condition.
- D. Certificates and Test Reports: Submit available documentation for surface-burning performance, emissions, and other specified performance characteristics.
- E. Closeout Submittals: Cleaning and maintenance instructions; warranty documentation; record of approved finish and product codes.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer regularly engaged in production of architectural panel and plank systems of similar type and complexity.

- B. Installer Qualifications: Experienced installer approved by manufacturer and having completed not fewer than three projects of comparable scope.
- C. Mockup: Construct minimum 8-foot-wide by 8-foot-high wall mockup or equivalent ceiling mockup, including one corner, one termination, one penetration, and specified attachment method. Approved mockup establishes minimum standard and may remain as part of Work if undisturbed.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in unopened manufacturer packaging, identified with product, finish, lot, and project information.
- B. Store flat, dry, fully supported, and protected from moisture, sunlight, dirt, and damage. Do not store directly on concrete.
- C. Handle planks to prevent chipping, scratching, bowing, and damage to phenolic faces and edges.

1.7 FIELD CONDITIONS

- A. Environmental Conditions: Do not install until building is enclosed, wet work is complete and dry, and permanent HVAC maintains service conditions.
- B. Acclimatization: Condition materials in installation area for not less than 48 hours, or longer if required by manufacturer.
- C. Field Measurements: Verify dimensions before fabrication where work is dependent on field conditions.

1.8 WARRANTY

- A. Manufacturer Warranty: Provide manufacturer standard written warranty covering defects in materials and manufacture for [one] year from Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Basis-of-Design Manufacturer: American Architectural Products Group, 248 James Street, Venice, Florida 34285; telephone 844-307-9571; email info@aapgco.com; website www.aapgco.com.
- B. Specified Product: Lineawood Phenolic-Faced Architectural Planks. Provide the specified product manufactured and supplied by American Architectural Products Group; no substitutions or proposed equals are permitted.
- C. Substitutions: Not permitted. Requests for substitutions, comparable products, alternates, or proposed equals will not be considered.
- D. Distributor: Anita Hlister; email anita.hlister@koroseal.com; telephone 813-802-8211.
- E. Division 01 substitution procedures do not apply to this Section. Product naming is proprietary and establishes the only acceptable manufacturer and product.

2.2 PHENOLIC-FACED ARCHITECTURAL PLANK SYSTEM

- A. System Description: Factory-fabricated linear slatted plank assembly comprising phenolic decorative faces on profiled slats, dark reveal/base, precision spacing, and coordinated attachment for continuous wall or ceiling installation.
- B. Nominal Panel Size: 118 inches long by 8.5 inches wide by 0.79 inch thick (3000 by 217 by 20 mm). All dimensions are nominal.
- C. Slat Configuration:
 - 1. Standard: Five slats, each approximately 1.42 inches (36 mm) wide.
 - 2. Wide: Three slats, each approximately 2.56 inches (65 mm) wide, where available in selected phenolic finishes.
 - 3. Spacing: Approximately 0.31 inch (8 mm) black reveal between slats.
 - 4. Profile: Slat exposed edges gently rounded and planed at approximately 45 degrees to create a three-dimensional linear appearance.
- D. Core and Base: Black phenolic core, factory prepared for concealed or coordinated fastening.
- E. Decorative Surface: High-pressure decorative laminate / phenolic laminate permanently bonded to exposed slat faces and edges as required for complete finished appearance.
- F. Base Color: Black, creating continuous dark reveals between slats.

- G. Finish Selection: [Oak phenolic] [White Oak phenolic] [Custom phenolic selected from manufacturer standard range].
- H. Product Codes: Coordinate with manufacturer. Brochure-designated HPL variants include LP6-B-O-01 and LP6-B-W-01 for 36 mm slat configurations.
- I. Joints: Precision tongue-and-groove joints [on all sides] [on long edges], as required for selected product and application.
- J. Panel Weight: Approximately [confirm with manufacturer] lb ([confirm] kg) per panel for selected phenolic construction.
- K. Adhesive: Manufacturer standard water-resistant adhesive compatible with substrate and phenolic laminate.
- L. Emissions: Provide assembly documented as low-emitting where required; submit available M1 or equivalent documentation.
- M. Fire Performance: Provide tested assembly meeting [Class A] [Class B] surface-burning requirements when indicated. Do not infer fire classification from untested components; submit project-specific test report.

2.3 ACCESSORIES

- A. Fasteners: Manufacturer-recommended corrosion-resistant screws, crown staples, clips, or concealed fasteners suitable for substrate and application. Exposed fasteners, where permitted, shall be black and positioned within reveals.
- B. Furring and Blocking: Kiln-dried wood, plywood, or metal furring sized and spaced to support planks and loads, coordinated with manufacturer requirements.
- C. Trims: Manufacturer standard or custom matching/contrasting perimeter, corner, reveal, and transition trims.
- D. Adhesive: Low-emitting construction adhesive recommended by plank manufacturer and compatible with substrate and panel components; use only as supplementary attachment unless manufacturer approves adhesive-only installation.
- E. Acoustic Backing: [Black acoustical fabric] [sound-absorptive insulation] where indicated; furnish as part of tested or engineered assembly when acoustic performance is specified.

2.4 FABRICATION

- A. Fabricate planks square, straight, and free of warp, delamination, chips, scratches, and visible adhesive.
- B. Sequence phenolic pattern and tone for visually balanced installation. Maintain consistent slat spacing and reveal alignment.
- C. Machine openings and edge conditions accurately. Reinforce cutouts where required. Do not field cut factory-finished edges where exposed unless approved by manufacturer.
- D. Provide factory-finished components to greatest extent practicable. Seal field-cut substrate edges where required by manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, blocking, dimensions, tolerances, moisture conditions, penetrations, and adjacent construction before installation.
- B. Verify substrates are plumb, level, true, dry, clean, and capable of supporting installed system without deflection.
- C. Do not begin installation until unsatisfactory conditions have been corrected. Beginning installation constitutes acceptance of substrates.

3.2 PREPARATION

- A. Establish control lines and verify layout to avoid narrow cuts at visible boundaries.
- B. Install blocking and furring at spacing required by manufacturer and coordinated with panel joints, edges, fixtures, and penetrations.
- C. Coordinate concealed services before covering substrates.

3.3 INSTALLATION

- A. Install in accordance with approved shop drawings and manufacturer written instructions.

- B. Orientation: Install planks [vertically] [horizontally] [as indicated]. Maintain continuous, straight slat and reveal alignment across joints and adjacent surfaces.
- C. Fastening: Secure through tongue, reveal, clip, or other manufacturer-approved location. Conceal fasteners to maximum extent. Do not damage phenolic faces or restrict intended movement.
- D. Walls: Install from established datum, maintaining plumb joints and consistent reveals. Provide blocking at terminations and attachments.
- E. Ceilings: Install to structural or engineered support system. Do not support panels from suspended gypsum board or ceiling grid unless specifically engineered and approved.
- F. Openings: Cut accurately for outlets, devices, lights, sprinklers, grilles, access panels, and other penetrations. Provide neat clearances and trims.
- G. Perimeters and Corners: Provide uniform reveals or trims. Scribe neatly to adjacent construction. Do not install damaged or chipped pieces in exposed locations.
- H. Expansion and Movement: Provide clearances and control joints required by manufacturer and coordinate with building movement joints. Do not bridge structural expansion joints.
- I. Phenolic Surface Protection: Remove protective film only when installation and adjacent work will not damage surfaces.

3.4 FIELD QUALITY CONTROL

- A. Inspect completed installation for alignment, fastening, surface damage, joint uniformity, and adherence to approved mockup.
- B. Replace planks that are warped, delaminated, chipped, scratched, stained, improperly aligned, or otherwise unacceptable.

3.5 CLEANING

- A. Clean phenolic surfaces with manufacturer-approved nonabrasive products. Remove adhesive, markings, and construction residue without damaging finish.
- B. Do not use abrasive pads, strong solvents, or cleaners not approved by manufacturer.

3.6 PROTECTION

- A. Protect completed installation from impact, moisture, dust, staining, and damage by subsequent construction activities.
- B. Repair or replace damaged work before Substantial Completion.

END OF SECTION 06 4216