



Section 06 42 00
Architectural Bamboo Interior Products
Paneling, Dimensional Components & Veneers

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PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. Product Types:
 - a. Unfinished Vertical Cross-Ply (Panels)
 - b. Unfinished Tiger-Strand Cross-Ply (Panels)
 - c. Unfinished Vertical Solid-Ply (Panels, Components, and Veneer)
 - d. Finished Bamboo Products (Panels, Components, & Veneer) with installation recommendations as prescribed by the supplier.

1.2 RELATED SECTIONS

- A. Section 06 01 00 - Maintenance of Wood, Plastics, and Composites
- B. Section 06 10 00 – Rough Carpentry
- C. Section 06 20 00 – Finish Carpentry
- D. Section 06 40 00 – Architectural Woodwork
- E. Section 09 01 00 – Maintenance of Finishes
- F. Section 09 50 00 – Ceilings
- G. Section 09 70 00 – Wall Finishes
- H. Section 09 80 00 – Acoustics
- I. Section 09 90 00 – Paints and Coatings

1.3 SUBMITTALS

- A. Submit under provisions of Section 01 33 00 – Administrative Requirements.
- B. Product Data
 - 1. Manufacturer's data sheets on each product to be used.
 - 2. Preparation instructions and recommendations
 - 3. Storage and handling requirements and recommendations
 - 4. Installation methods
- C. Verification Samples: Two representative units of each finish product specified.
 - 1. Sample Size: 12 inches (305mm) boards of chosen size and color and board may be stained and finished depending on final color specified.

- D. Shop Drawings: Provide manufacturer's standard details referenced to interior elevations of the project drawings; include details of materials, construction, and finish. Include relationship with adjacent construction.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum 8 years documented experience.
- B. Installer Qualifications: Company specializing in performing work of this section with minimum 5 years documented experience with projects of similar scope and complexity.
- C. Source Limitations: Each type of product from a single manufacturing source to ensure uniformity.
- D. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. All mock-ups must be approved by Architect prior to supply of finished products.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Panels, components & veneer are to be delivery to project site in original packaging in advance of installation to allow sufficient acclimatization to site conditions.
- B. Panels, components & veneer must be stored in original packaging in conditioned space where HVAC systems are operational and controlling storage site temperature and humidity.
- C. Reference "General and Technical Data Sheet" provided by Supplier for suggested storage and handling of materials. General and Technical Data Sheet can also be found on manufacturer's website: www.lamboos.com/resourceslibrary

1.6 LEED SUBMITTALS

- A. Lamboo™ Architectural Bamboo Products qualify for consideration under the LEED™ V4 Rating System:
 - a. EQc2 – Low-Emitting Materials
 - b. MRc3: Sourcing of Raw Materials
 - c. INc1 – Innovation in Design – Lifecycle/Environmental Impact.

1.7 WARRANTY

- A. Manufacturer's Warranty: Provide manufacturer's standard limited warranty against defects in materials and workmanship.

1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
- B. Temperature and relative humidity (RH) of installation area should be controlled and stable in normal year-round conditions a minimum of one (1) week before installation to allow materials to acclimate to project conditions. For optimal performance manufacturer recommends a temperature range of 50 to 72° F and a RH of 30% to 50% to be maintained year-round.

1.9 SCHEDULING

These items must be completed prior to delivery and installation of interior products:

- A. Building must be fully enclosed from outside elements.
- B. Completion of all wet work. Wet work includes but not limited to: concrete, plaster, drywall, grouting, and painting.

- C. Environmental and humidity control system has been in operation for at least 14 days within the area where products will be installed.

1.10 MAINTENANCE

- A. All products should be maintained per manufacturer's maintenance guidelines.

PART 2 – PRODUCTS

2.01 MANUFACTURER:

- 1) Acceptable Manufacturer: Lamboo Technologies, LLC. Which is located at: 311 W. Edwards Street Litchfield, IL 62056
 - a) Telephone 866-966-2999
 - b) Website: www.lamboo.us
 - c) Email: sales@lamboo.us

- B. Substitutions: Not Permitted.

2.02 PRODUCT AVAILABILITY

- A. Lamboo® Surface™ Decorative Wall Panels and Components
- B. Lamboo® Skyline™ Ceiling and Soffit Systems
- C. Lamboo® Rainscreen™ Wall and Ceiling Systems

2.03 BAMBOO MATERIALS

- A. Engineered Bamboo: Lamboo® Architectural Bamboo Cross-Laminated Panels

- 1. Species: Moso (Phyllostachys Pubescens) bamboo
- 2. 98% bamboo / 2% Adhesive, Binders, and Treatments
- 3. Surface sanded to 120 to 180 grit (by specification)
- 4. Unfinished or Finished (by specification)
- 5. Fire Resistance: ASTM E84 Class B
- 6. Fire Resistance: ASTM E84 Class A
- 7. Toxicity: Low VOC Adhesives, does not produce off-gassing when sanded, profiled, or handled.
- 8. Anti-Microbial Properties: Naturally anti-bacterial materials.
- 9. Density and Buoyancy:
 - i. Janka Rating: 1,900 lbf (8.45 kN)
 - ii. Average Weight: 41 Lbs/Ft³ (615 Kg/m³)
 - iii. Specific Gravity: 0.60
- 10. 1" (25.4 mm) thick, 3-ply cross lamination
 - a. VCPC-100-INT-4896 (Unfinished Vertical Carbonized Panel)
 - b. VCPN-100-INT-4896 (Unfinished Vertical Natural Panel)
- 11. 3/4" (19 mm) thick 3-ply cross lamination
 - a. VCPC-075-INT-4896 (Unfinished Vertical Carbonized)
 - b. VCPN-075-INT-4896 (Unfinished Vertical Natural)
 - c. SCPT-075-INT-4896 (Unfinished Tiger Strand)
- 12. 1/2" (12.7 mm) thick 3-ply cross lamination
 - a. VCPC-050-INT-4896 (Unfinished Vertical Carbonized)
 - b. VCPN-050-INT-4896 (Unfinished Vertical Natural)
 - c. SCPT-050-INT-4896 (Unfinished Tiger Strand)
- 13. 1/4" (6.35 mm) thick 3-ply cross lamination
 - a. VCPC-025-INT-4896 (Unfinished Vertical Carbonized)
 - b. VCPN-025-INT-4896 (Unfinished Vertical Natural)
- 14. 1/42" (0.6 mm) thick 1-ply solid ply lamination [VENEER]
 - a. VCPC-003-INT-4997 (Unfinished Vertical Carbonized – Paper Back)
 - b. VCPN-003-INT-4997 (Unfinished Vertical Natural – Paper Back)
 - c. SCPT-003-INT-4896 (Unfinished Tiger Strand – Paper Back)
- 15. Finished [one side] [two sides] (per specification)

16. All solid cross-laminated panels will be 48" (1220mm) wide by 96" (2440mm) in length.
17. All veneer sheets will be 49" (1250mm) wide by 97" (2500mm) in length.
18. Dimensional tolerances for solid panels will be +/- 1/16" (1.58mm) for all dimensions.
19. Dimensional tolerances for veneer sheets will be +/- 1/16" (1.58mm) for width and length dimensions. +/- 1/32" for thickness.

B. Lamboo® Architectural Bamboo Dimensional Components

1. Available Lengths: 8'/12'/16'
 - a. Note: Natural (Blonde) colored materials only offered in 8' lengths
 - b. Note: Tiger Strand Materials only available in 6' lengths
2. Product Code will end with: INT-8 / INT-12 / INT-16
3. Custom Lengths Available Upon Request
4. Custom Sizing Available Upon Request
5. Nominal 1x4: 3/4" thickness x 3-1/2" width
 - a. VSPH(104)-INT – Vertical Solid-Ply - Hazel
 - b. VSPN(104)-INT – Vertical Solid-Ply - Natural
 - c. VSPCOF(104)-INT – Vertical Solid-Ply – Coffee
 - d. VSPBUT(104)-INT – Vertical Solid-Ply – Butternut
 - e. VSPDA(104)-INT – Vertical Solid-Ply – Deep Amber
 - f. SCPT(104)-INT – Strand Cross-Ply – Tiger
6. Nominal 1x6: 3/4" thickness x 5-1/2" width
 - a. VSPH(106)-INT – Vertical Solid-Ply - Hazel
 - b. VSPN(106)-INT – Vertical Solid-Ply - Natural
 - c. VSPCOF(106)-INT – Vertical Solid-Ply – Coffee
 - d. VSPBUT(106)-INT – Vertical Solid-Ply – Butternut
 - e. VSPDA(106)-INT – Vertical Solid-Ply – Deep Amber
 - f. SCPT(106)-INT – Strand Cross-Ply – Tiger
7. Nominal 1x8: 3/4" thickness x 7-1/4" width
 - a. VSPH(108)-INT – Vertical Solid-Ply - Hazel
 - b. VSPN(108)-INT – Vertical Solid-Ply - Natural
 - c. VSPCOF(108)-INT – Vertical Solid-Ply – Coffee
 - d. VSPBUT(104)-INT – Vertical Solid-Ply – Butternut
 - e. VSPDA(104)-INT – Vertical Solid-Ply – Deep Amber
 - f. SCPT(104)-INT – Strand Cross-Ply – Tiger
8. Nominal 5/4x4: 1" thickness x 3-1/2" width
 - a. VSPH(5404)-INT – Vertical Solid-Ply - Hazel
 - b. VSPN(5404)-INT – Vertical Solid-Ply - Natural
 - c. VSPCOF(5404)-INT – Vertical Solid-Ply – Coffee
 - d. VSPBUT(5404)-INT – Vertical Solid-Ply – Butternut
 - e. VSPDA(5404)-INT – Vertical Solid-Ply – Deep Amber
9. Nominal 5/4x6: 1" thickness x 5-1/2" width
 - a. VSPH(5406)-INT – Vertical Solid-Ply - Hazel
 - b. VSPN(5406)-INT – Vertical Solid-Ply - Natural
 - c. VSPCOF(5406)-INT – Vertical Solid-Ply – Coffee
 - d. VSPBUT(5406)-INT – Vertical Solid-Ply – Butternut
 - e. VSPDA(5406)-INT – Vertical Solid-Ply – Deep Amber
10. Nominal 2x2: 1-1/2" thickness x 1-1/2" width
 - a. VSPH(202)-INT – Vertical Solid-Ply - Hazel
 - b. VSPN(202)-INT – Vertical Solid-Ply - Natural
 - c. VSPCOF(202)-INT – Vertical Solid-Ply – Coffee
 - d. VSPBUT(202)-INT – Vertical Solid-Ply – Butternut
 - e. VSPDA(202)-INT – Vertical Solid-Ply – Deep Amber
11. Nominal 2x4: 1-1/2" thickness x 1-1/2" width

- a. VSPH(204)-INT – Vertical Solid-Ply - Hazel
 - b. VSPN(204)-INT – Vertical Solid-Ply - Natural
 - c. VSPCOF(204)-INT – Vertical Solid-Ply – Coffee
 - d. VSPBUT(204)-INT – Vertical Solid-Ply – Butternut
 - e. VSPDA(204)-INT – Vertical Solid-Ply – Deep Amber
12. Nominal 2x4: 1-1/2" thickness x 1-1/2" width
- a. VSPH(204)-INT – Vertical Solid-Ply - Hazel
 - b. VSPN(204)-INT – Vertical Solid-Ply - Natural
 - c. VSPCOF(204)-INT – Vertical Solid-Ply – Coffee
 - d. VSPBUT(204)-INT – Vertical Solid-Ply – Butternut
 - e. VSPDA(204)-INT – Vertical Solid-Ply – Deep Amber

B. Physical/Mechanical Properties

1. Visit www.lamboo.us/resources for the most up to date mechanical properties & testing data on desired product(s).

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Prepare substrates using the methods recommended by the manufacturer for achieving best result for the substrates under project conditions. Clean surfaces thoroughly prior to installation.
- B. Verify that product is clean, dry and free of contaminants.
- C. Verify that HVAC system is operating properly and maintaining proper occupancy-level temperature and humidity conditions.
- D. Coordinate with responsible party to correct unsatisfactory conditions.
- E. Fabricator or installer shall inspect products upon arrival, inspect for any freight damage, confirm condition and examine to determine it matches the work order.

3.02 PREPARATION

- A. Comply with manufacturer's handling instructions that can be found on manufacturer's website.
 - a. www.lamboo.us/resources

3.03 INSTALLATION

- A. Install bamboo panels in accordance with manufacturer's installation guidelines.

3.04 CLEANING

- A. Remove all debris left from installation; vacuum; leave space in clean condition.

3.05 PROTECTION

- A. Cover with suitable covering.
- B. Do not use a non-breathable sheet or film.
- C. Maintain covering throughout remainder of construction.

END OF SECTION