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KIREI BAMBOO PLYWOOD/VENEERS PRODUCT SPECIFICATION CSI 3-PART FORMAT

**In Division 06, 09, 10 and 12 Sections including
Architectural Woodwork, Wall Paneling, Wainscoting,
Moldings, Millwork, Kitchen Cabinet RTF Door and
Drawer Fronts, Display Panels, and Commercial Fixtures.**

GENERAL NOTES TO SPECIFIER:

PLEASE GO TO WWW.KIREIUSA.COM TO VERIFY THIS IS THE MOST CURRENT VERSION OF THIS SPECIFICATION.

THE FOLLOWING PRODUCT SPECIFICATION LANGUAGE IS INTENDED TO ASSIST DESIGN PROFESSIONALS IN SPECIFYING BAMBOO PLYWOOD IN EXISTING 3-PART SPECIFICATIONS FOR PANELING, CASEWORK, DOORS, AND SIMILAR ARCHITECTURAL WOODWORK.

SAMPLE LANGUAGE IS PROVIDED FOR APPLICABLE ARTICLES IN PART 1-GENERAL AND PART 2-PRODUCTS FOLLOWING THE CONSTRUCTION SPECIFICATION INSTITUTE'S *SECTIONFORMAT*. BECAUSE OF THE VARIATION IN SPECIFICATION SYSTEMS CURRENTLY IN USE, ARTICLE AND PARAGRAPH NUMBERS AND TITLES MAY DIFFER SOMEWHAT THAN PRESENTED HEREIN. THE SAMPLE LANGUAGE SHOULD BE EDITED ACCORDINGLY TO FIT EACH FIRM'S SPECIFICATIONS.

ARTICLES AND PARAGRAPHS OF THIS PRODUCT SPECIFICATION ASSUME THE PROJECT MANUAL WILL CONTAIN COMPLETE DIVISION 1 DOCUMENTS INCLUDING 01 25 13-PRODUCT SUBSTITUTION PROCEDURES, SECTIONS 01 33 00-SUBMITTAL PROCEDURES, 01 62 00-PRODUCT OPTIONS, 01 66 00-PRODUCT STORAGE AND HANDLING REQUIREMENTS, 01 74 00-CLEANING AND WASTE MANAGEMENT, 01 77 00-CLOSEOUT PROCEDURES, AND 01 78 00-CLOSEOUT SUBMITTALS. CLOSE COORDINATION WITH DIVISION 1 SECTIONS IS REQUIRED. IF THE PROJECT MANUAL DOES NOT CONTAIN THESE SECTIONS, ADDITIONAL INFORMATION MAY BE INCLUDED UNDER THE APPROPRIATE ARTICLES.

NOTES TO THE SPECIFIER ARE IN ALL UPPER CASE TEXT AND ARE CONTAINED WITHIN ROWS OF ASTERISKS.

GREY HIGHLIGHTED GREEN TEXT AND NOTES RELATE TO LEED® PROJECTS AND CAN BE DELETED IF THE PROJECT IS NOT INTENDED TO ATTAIN LEED CERTIFICATION.

OPTIONAL ITEMS REQUIRING SELECTION BY THE SPECIFIER ARE ENCLOSED WITHIN BRACKETS, E.G. [35] [40] [45]. MAKE APPROPRIATE SELECTIONS AND DELETE OTHERS.

PART 1—GENERAL

1.01 SUMMARY

A. Section Includes:

ADD SUBPARAGRAPH IDENTIFYING THE ITEMS MADE WITH BAMBOO PLYWOOD.

B. Related Sections:

INCLUDE ALL DIVISION 01 SECTIONS CONTAINING LEED® REQUIREMENTS.

1.02 REFERENCES

IF THE "REFERENCES" ARTICLE IS USED, INCLUDE THE FOLLOWING IN THE REFERENCE LIST:

- A. American Society for Testing and Materials (ASTM):
 - a. ASTM D 1037, Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials.
 - b. ASTM D 3043 Standard Test Methods for Flexural Structural Panels in Flexure
 - c. ASTM E 84, Standard Test Method for Surface Burning Characteristics of Building Materials.
 - d. ASTM D 4442, Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Base Materials.
 - e. ASTM D 3500, Standard Test Method for Structural Panels in Tension
 - f. ASTM E 1333, Standard Test Method for Determining Formaldehyde Concentrations in Air Emission Rates from Wood Using a Large Chamber
- B. American National Standards Institute/Hardwood Plywood and Veneer Association (ANSI/HPVA): American National Standard for Hardwood and Decorative Plywood, HP-1.
- C. **US Green Building Council's Leadership in Energy and Environmental Design Green Building Rating System™ (LEED).**

1.03 SUBMITTALS

A. Product Data:

INCLUDE THE FOLLOWING IN THE "PRODUCT DATA" PARAGRAPH:

1. Bamboo plywood manufacturer's product data.

B. LEED Submittals:

INCLUDE THE FOLLOWING FOR LEED PROJECTS, AS APPLICABLE.

1. Credit MR 6, Rapidly Renewable Materials: Bamboo manufacturer's product data for each product used, indicating that product(s) are manufactured from a rapidly renewable resource.
2. Credit EQ 4.4 (Kirei Zero NAUF) Bamboo, Low Emitting Material: Bamboo manufacturer's product data for each product used, indicating that product(s) are manufactured using No Added Urea Formaldehyde binders.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Deliver Kirei Bamboo Panels to project site in original wrapping not less than 10 days prior to start of installation.

1.05 PROJECT/SITE CONDITIONS

A. Environmental Requirements: Installation spaces and bamboo panels must be maintained at normal occupancy temperature and humidity levels for minimum 10 days prior to installation. Bamboo panels exhibit optimum properties at temperature ranges from 60-70 Fahrenheit and relative humidity between 40-60%. Important Note: Room temperatures must remain between 50-80 Fahrenheit, and room relative humidity must remain between 35-65% both prior to installation and year-round, or warranty will be voided. A humidifier or dehumidifier may be needed to maintain adequate humidity conditions. *Note: In extremely dry climates, care should be taken to avoid shrinkage or warping by allowing bamboo panels to acclimate under actual use conditions for at least 14 days prior to use.*

PART 2-PRODUCTS

2. MATERIALS

INCLUDE THE FOLLOWING PARAGRAPHS AND SUBPARAGRAPHS FOR BAMBOO PLYWOOD AS APPROPRIATE.

- A. Bamboo Plywood:
1. Manufacturer: Kirei USA, LLC Solana Beach, CA.
 - a. Tel: 619-236-9924
 - b. <http://www.kireiusa.com>
 2. Species: Moso (Phyllostachys pubescens).

INCLUDE THE FOLLOWING SUBPARAGRAPH IF PRODUCTS ARE USED FOR WALL OR CEILING FINISHES PURSUANT TO IBC SECTION 803.

Fire Resistance Classification: [Class A] [Class C].

- a. Test surface burning characteristics in accordance with ASTM E 84.
3. Type:

SELECT APPROPRIATE TYPE(S) BELOW TO SUIT PROJECT REQUIREMENTS. DELETE THOSE NOT USED. FABRICATION ARTICLE OR DRAWINGS MUST CLEARLY IDENTIFY SPECIFIC USES. MOST CURRENT PRODUCTS AVAILABLE AT WWW.KIREIUSA.COM

A. Bamboo Panels

- a. 1 inch thick, 3-ply
[Horizontal Carbonized] [Vertical Carbonized]
[Horizontal Natural] [Vertical Natural]
[Zebra Horizontal] [Zebra Vertical] [Zebra 2]
[Chocolate]
- b. 3/4 inch thick, [3-ply] [Solid]
[Horizontal Carbonized] [Vertical Carbonized]
[Horizontal Natural] [Vertical Natural]
[Zebra Horizontal] [Zebra Vertical] [Zebra 2]
[Chocolate]
- c. 1/2 inch thick, [3-ply] [Solid]
[Horizontal Carbonized] [Vertical Carbonized]
[Horizontal Natural] [Vertical Natural]
[Zebra Horizontal] [Zebra Vertical] [Zebra 2]
[Chocolate]
- d. 10mm [3-ply] [Solid]
[Horizontal Carbonized] [Vertical Carbonized]
[Horizontal Natural] [Vertical Natural]
[Zebra Horizontal] [Zebra Vertical] [Zebra 2]
[Chocolate]

e. 1/4 inch thick, [3-ply] [Solid]
[Horizontal Carbonized] [Vertical Carbonized]
[Horizontal Natural] [Vertical Natural]
[Zebra Horizontal] [Zebra Vertical] [Zebra 2]
[Chocolate]

f. 1/42nd inch thick bamboo veneer
[Horizontal Carbonized] [Vertical Carbonized]
[Horizontal Natural] [Vertical Natural]
[Zebra Horizontal] [Zebra Vertical] [Zebra 2]

A. Accessories

a. Edge Banding, 7/8 inch width by 0.6 millimeters thick by
[50'] [500'] length roll
[Horizontal Carbonized] [Vertical Carbonized]
[Horizontal Natural] [Vertical Natural]

B. Veneers

a. 17 inches width by 0.6 millimeters thickness by 96 inches
length
[Horizontal Natural] [Vertical Natural]
[Zebra Horizontal] [Zebra Vertical] [Zebra 2]

3. EXECUTION

INCLUDE THE FOLLOWING PARAGRAPHS AND SUBPARAGRAPHS FOR INSTALLATION
AND FINISHING OF BAMBOO PLYWOOD AS APPROPRIATE.

END OF PRODUCT SPECIFICATION

VISIT
WWW.KIREIUSA.COM
FOR FURTHER INFORMATION

