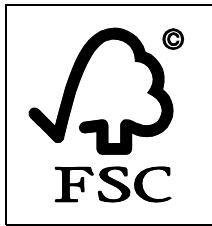


**FSC-CERTIFIED,
VENEER , PARTICLEBOARD OR MDF
CORE DECORATIVE HARDWOOD
PLYWOOD PRODUCT SPECIFICATION IN
CSI 3-PART FORMAT**



FSC-certified products available upon request. The wood used in plywood panels bearing the FSC ecolabel comes from well-managed forests independently certified according to the rules of the Forest Stewardship Council.

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SW-COC-000065



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GENERAL NOTES TO SPECIFIER:

THE FOLLOWING PRODUCT SPECIFICATION LANGUAGE IS INTENDED TO ASSIST DESIGN PROFESSIONALS IN SPECIFYING FSC-CERTIFIED, NO-ADDED-FORMALDEHYDE DECORATIVE HARDWOOD PLYWOOD PANELS IN EXISTING 3-PART SPECIFICATIONS FOR PANELING, CASEWORK, AND SIMILAR ARCHITECTURAL WOODWORK.

SAMPLE LANGUAGE IS PROVIDED FOR APPLICABLE ARTICLES IN PART 1-GENERAL, PART 2-PRODUCTS AND PART 3-EXECUTION FOLLOWING THE CONSTRUCTION SPECIFICATION INSTITUTE'S *SECTIONFORMAT*. 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 UPPER CASE TEXT AND ARE CONTAINED IN BOXES SIMILAR TO THIS ONE.

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.

ITEMS REQUIRING ADDITIONAL INFORMATION ARE UNDERLINED BLANK SPACES, E.G. _____ .

BOLD FACE TYPE IDENTIFIES OPTIONAL PARAGRAPHS AND FEATURES THAT MAY BE INCLUDED OR DELETED DEPENDING ON PROJECT REQUIREMENTS. CONVERT THE BOLD FACE TYPE TO REGULAR TYPE WHEN INCLUDING THESE PARAGRAPHS OR FEATURES. WHEN DELETING A PARAGRAPH, BE CERTAIN THAT ALL SUBPARAGRAPHS ARE ALSO DELETED.

PART 1–GENERAL

1. __ SUMMARY

IN THE RELATED SECTIONS PARAGRAPH INCLUDE ALL DIVISION 01 SECTIONS CONTAINING LEED® REQUIREMENTS.

1. __ REFERENCES

INCLUDE THE FOLLOWING IN THE REFERENCE LIST;

American National Standards Institute (ANSI), [ANSI/HPVA HP-1](#) American National Standard for Hardwood and Decorative Plywood,

[Forest Stewardship Council](#) (FSC- US), Information on FSC in LEED Projects

[Hardwood Plywood and Veneer Association](#) (HPVA), Hardwood Plywood Handbook.

LEED®: [US Green Building Council](#), Leadership in Energy and Environmental Design Green Building Rating System™.

1. __ SUBMITTALS

INCLUDE THE FOLLOWING IN THE PRODUCT DATA PARAGRAPH:

[[Hardwood Plywood Information](#)]

FOR LEED PROJECTS INCLUDE THE FOLLOWING, AS APPLICABLE, IN THE LEED SUBMITTALS PARAGRAPH.

Credit MR 4.1, 4.2 - Recycled Content: Plywood manufacturer's product data for each product used, indicating the percentage of pre-consumer recycled content.

Credit MR 5.1, 5.2 - Regional Materials: Plywood manufacturer's product data for each product used, indicating location of manufacture and harvest source(s).

[500 MILE RADIUS MAP](#) AVAILABLE FOR REFERENCE. CONTACT COLUMBIA SPECIFICATION AND [SPECIALTY PRODUCT REPRESENTATIVE](#) WITH SITE ADDRESS, FABRICATOR ADDRESS AND SPECIFICATION/MILL INFORMATION FOR FINAL CREDIT 5.1 DETERMINATION/CONFIRMATION.

Credit MR 7.0 - Certified Wood: Certificates of chain-of-custody signed by manufacturers certifying products specified to be made from certified wood were made from certified wood obtained from forests certified by an FSC-accredited certification body to comply with FSC 1.2, *Principles and Criteria*. Include evidence mill is certified for chain-of-custody by an FSC-accredited certification body. To locate distributors certified to FSC COC click this link: [DISTRIBUTOR LOCATOR](#)

Credit EQ 4.4 - Low-Emitting Materials, Composite Wood: Plywood manufacturer's product data sheet for each composite wood product used, indicating statement bonding agent contains no urea-formaldehyde.

INCLUDE THE FOLLOWING IN THE "MSDS SUBMITTALS" PARAGRAPH:

[PureBond MSDS](#)

SAMPLES PARAGRAPH: 3 BY 3 INCH PUREBOND PLYWOOD SAMPLES ARE COMMONLY AVAILABLE IN THE FOLLOWING VENEERS: ALDER, BAMBOO, BEECH, BIRCH, CHERRY, FIR, HARD MAPLE, JEQUITIBA, RED OAK, SAPELE, AND WALNUT. COLUMBIA SPECIFICATION REPRESENTATIVES MAY BE ABLE TO PROVIDE ADDITIONAL SAMPLES DEPENDING CIRCUMSTANCES UNIQUE TO A PARTICULAR PROJECT.

1. __ DELIVERY, STORAGE AND HANDLING

INCLUDE THE FOLLOWING IN THIS ARTICLE:

Store decorative hardwood plywood and fabricated products in interior locations where temperature is maintained between 60 and 90 degrees Fahrenheit and relative humidity is maintained between 30 and 55 percent.

Remove or loosen plastic wrappings.

Cover decorative hardwood plywood panels and fabricated products to protect from exposure to light until installed.

Protect decorative hardwood plywood from edge and surface damage.

PART 2-PRODUCTS

2. __ MATERIALS

INCLUDE FOLLOWING PARAGRAPH A. AND SUBPARAGRAPHS WHEN SPECIFYING VENEER-CORE HARDWOOD PLYWOOD, OR PARAGRAPH B. WHEN SPECIFYING PARTICLEBOARD-CORE HARDWOOD PLYWOOD OR PARAGRAPH C WHEN SPECIFYING MEDIUM DENSITY FIBERBOARD HARDWOOD PLYWOOD.

FSC MIXED xx% PERCENT PANELS CAN BE PRODUCED USING FSC-CERTIFIED CORES AND NON-CERTIFIED FACE VENEERS. FSC PURE and FSC MIXED CREDIT CERTIFIED PANELS REQUIRE BOTH FSC-CERTIFIED CORES AND FACE VENEERS.

TWO-STEP PLATFORM CONSTRUCTION IS PREFERRED FOR SLICED DECORATIVE VENEERS AND WALL PANEL CONSTRUCTION TO REDUCE CORE TELEGRAPHING; SINGLE-STEP CONSTRUCTION PROVIDES A BETTER VALUE FOR CASEGOODS. PARTICLEBOARD OR MDF CORES ARE RECOMMENDED FOR DOOR AND DRAWER FRONTS AND OTHER USES REQUIRING SMOOTHER, FLATTER PANELS.

A. PureBond process veneer-core hardwood plywood manufactured by Columbia Forest Products.

1. Panel:
 - a. [(70-97%) Mixed] [FSC Pure] [FSC Mixed Credit]
 - b. Manufacture according to ANSI/HVPA HP-1.
 - c. Core construction: FSC-certified veneer core.
2. Thickness: As shown on drawings.
3. Veneers:

COLUMBIA MANUFACTURES ALL DECORATIVE PLYWOOD ON A BUILD-TO-ORDER BASIS. SPECIES SELECTION PRESENTED BELOW REFLECT MOST COMMON SPECIES BUT OTHER UNUSUAL VENEERS ALSO AVAILABLE BY QUOTE. BEST SPECIFICATION RESOURCE AVAILABLE FOR DECORATIVE HARDWOOD PLYWOOD IS THE HARDWOOD HANDBOOK AVAILABLE FOR PURCHASE FROM THE HARDWOOD PLYWOOD AND VENEER ASSOCIATION WEBSITE- [HPVA Website](#) . IT IS RECOMMENDED THAT SPECIFIERS CONTACT THE COLUMBIA DISTRIBUTORS REGARDING AVAILABILITY OF SPECIES, GRADES, CUTS AND MATCHES FOR VARIOUS SPECIES AND PANEL DIMENSIONS - PARTICULARLY FOR PROJECTS REQUIRING LESS THAN 30 SHEETS (<1,000 SQ. FT.) VIEW COLUMBIA FOREST PRODUCTS [DISTRIBUTOR LOCATOR](#) .

a. Face:

READILY AVAILABLE FSC-CERTIFIED FACE VENEERS ARE HIGHLIGHTED IN GREY BELOW. CONTACT COLUMBIA FOREST PRODUCTS FOR AVAILABILITY OF OTHER CERTIFIED VENEERS.

- 1) Species: [alder] [ash] [bamboo] [basswood] [beech] [birch] [cedar] [cherry] [fir] [hickory/pecan] [mahogany] [hard maple] [oak-red][oak-white] [pine (clear/knotty)] [poplar/tulipwood] [walnut].
- 2) Color selection: [natural] [sap (light color)] [heart (dark color)] [_____].
- 3) ANSI/HPVA HP-1 grades: [AA] [A] [B] [C] [D].
- 4) Cut: [rotary] [plain-sliced] [quarter-sliced] [rift cut].

- 5) Veneer match: [book-matched] [slip match] [random match] [pleasing match] [plank match].

BALANCED CONSTRUCTION (SAME FACE AND BACK SPECIES) IS TYPICAL BUT DIFFERENT, COMPATIBLE SPECIES COMBINATIONS ARE POSSIBLE (E.G. CHERRY WITH A MAPLE BACK) IN SPECIAL CASES. PLEASE CONSULT WITH A COLUMBIA DISTRIBUTOR OR SPECIFICATION AND SPECIALTY PRODUCT REPRESENTATIVE FOR A DETERMINATION OF FEASIBILITY.

b. Back:

READILY AVAILABLE FSC-CERTIFIED BACK VENEERS ARE HIGHLIGHTED IN GREY BELOW. CONTACT COLUMBIA FOREST PRODUCTS FOR AVAILABILITY OF OTHER CERTIFIED VENEERS.

- 1) Species: [alder] [ash] [bamboo] [basswood] [birch] [cedar] [cherry] [fir] [hickory/pecan] [mahogany] [hard maple] [oak-red] [oak-white] [pine (clear/knotty)] [poplar] [walnut].
- 2) Color selection [natural] [sap (light color)] [heart (dark color)] [_____].
- 3) ANSI/HPVA HP-1 grades: [1] [2] [3] [4] [face grades can be also specified as back grades].
- 4) Cut: [rotary] [plain-sliced] [quarter-sliced] [rift cut].
- 5) Veneer match: [book-matched] [slip match] [random match] [pleasing match] [plank match].

4. Factory Finish: Clear UV cured acrylic coating on [face side] [back side] [both sides]

- a. Gloss level: [Satin] [Medium]

B. Phenolic or soy bonded particleboard-core hardwood plywood assembled with PureBond soy technology by Columbia Forest Products.

1. Panel:

- a. [(70-97%) Mixed] [FSC Pure] [FSC Mixed Credit]
- b. Manufacture according to ANSI/HVPA HP-1.
- c. Core construction: FSC-certified phenolic or soy-bonded particleboard.
 - 1) Minimum 80 percent pre-consumer recycled content.

2. As shown on drawings.

3. Veneers:

COLUMBIA MANUFACTURES ALL DECORATIVE PLYWOOD ON A BUILD-TO-ORDER BASIS. SPECIES SELECTION PRESENTED BELOW REFLECT MOST COMMON SPECIES BUT OTHER UNUSUAL VENEERS ALSO AVAILABLE BY QUOTE. BEST SPECIFICATION RESOURCE AVAILABLE FOR DECORATIVE HARDWOOD PLYWOOD IS THE HARDWOOD HANDBOOK AVAILABLE FOR PURCHASE FROM THE HARDWOOD PLYWOOD AND VENEER ASSOCIATION WEBSITE- [HPVA Website](#) . IT IS RECOMMENDED THAT SPECIFIERS CONTACT THE COLUMBIA DISTRIBUTORS REGARDING AVAILABILITY OF SPECIES, GRADES, CUTS AND MATCHES FOR VARIOUS SPECIES AND PANEL DIMENSIONS - PARTICULARLY FOR PROJECTS REQUIRING LESS THAN 30 SHEETS (<1,000 SQ. FT.) VIEW THE COLUMBIA FOREST PRODUCTS [DISTRIBUTOR LOCATOR](#).

a. Face:

READILY AVAILABLE FSC-CERTIFIED FACE VENEERS ARE HIGHLIGHTED IN GREY BELOW. CONTACT COLUMBIA FOREST PRODUCTS FOR AVAILABILITY OF OTHER CERTIFIED VENEERS.

- 1) Species: [alder] [ash] [bamboo] [basswood] [beech] [birch] [cedar] [cherry] [fir] [hickory/pecan] [mahogany] [hard maple] [oak-red] [oak-white] [pine (clear/knotty)] [poplar/tulipwood] [walnut].
- 2) Color selection [natural] [sap (light color)] [heart (dark color)] [_____].
- 3) ANSI/HPVA HP-1 grades: [AA] [A] [B] [C] [D].
- 4) Cut: [rotary] [plain-sliced] [quarter-sliced] [rift cut].
- 5) Veneer Match: [book-matched] [slip match] [random match] [pleasing match] [plank match].

BALANCED CONSTRUCTION (SAME FACE AND BACK SPECIES) IS TYPICAL BUT DIFFERENT, COMPATIBLE SPECIES COMBINATIONS ARE POSSIBLE (E.G. CHERRY WITH A MAPLE BACK) IN SPECIAL CASES. PLEASE CONSULT WITH A COLUMBIA DISTRIBUTOR OR SPECIFICATION AND SPECIALTY PRODUCT REPRESENTATIVE FOR A DETERMINATION OF FEASIBILITY.

b. Back:

READILY AVAILABLE FSC-CERTIFIED BACK VENEERS ARE HIGHLIGHTED IN GREY BELOW. CONTACT COLUMBIA FOREST PRODUCTS FOR AVAILABILITY OF OTHER CERTIFIED VENEERS.

- 1) Species: [alder] [ash] [bamboo] [basswood] [beech] [birch] [cedar] [cherry] [fir] [hickory/pecan] [mahogany] [hard maple] [oak-red] [oak-white] [pine (clear/knotty)] [poplar/tulipwood] [walnut].
- 2) Color selection [natural] [sap (light color)] [heart (dark color)] [_____].
- 3) ANSI/HPVA HP-1 grades: [1] [2] [3] [4] [face grades can be also specified as back grades].
- 4) Cut: [rotary] [plain-sliced] [quarter-sliced] [rift cut].
- 5) Veneer Match: [book-matched] [slip match] [random match] [pleasing match][plank match].

4. **Factory Finish: Clear UV cured acrylic coating on [face side] [back side] [both sides]**

- a. Gloss Level: [Satin] [Medium].

B. Phenolic or MDI bonded medium density fiberboard [MDF] -core hardwood plywood assembled with PureBond soy technology by Columbia Forest Products.

1. Panel:

- a. [(70-97%) Mixed] [FSC Pure] [FSC Mixed Credit]
- b. Manufacture according to ANSI/HVPA HP-1.
- c. Core construction: FSC-certified phenolic or MDI bonded MDF
 - 1) Minimum 80 percent pre-consumer recycled content.

2. As shown on drawings.

3. Veneers:

COLUMBIA MANUFACTURES ALL DECORATIVE PLYWOOD ON A BUILD-TO-ORDER BASIS. SPECIES SELECTION PRESENTED BELOW REFLECT MOST COMMON SPECIES BUT OTHER UNUSUAL VENEERS ALSO AVAILABLE BY QUOTE. BEST SPECIFICATION RESOURCE AVAILABLE FOR DECORATIVE HARDWOOD PLYWOOD IS THE HARDWOOD HANDBOOK AVAILABLE FOR PURCHASE FROM THE HARDWOOD PLYWOOD AND VENEER ASSOCIATION WEBSITE- [HPVA Website](#) . IT IS RECOMMENDED THAT SPECIFIERS CONTACT THE COLUMBIA DISTRIBUTORS REGARDING AVAILABILITY OF SPECIES, GRADES, CUTS AND MATCHES FOR VARIOUS SPECIES AND PANEL DIMENSIONS - PARTICULARLY FOR PROJECTS REQUIRING LESS THAN 30 SHEETS (<1,000 SQ. FT.) VIEW COLUMBIA FOREST PRODUCTS [DISTRIBUTOR LOCATOR](#)

a. Face:

READILY AVAILABLE FSC-CERTIFIED FACE VENEERS ARE HIGHLIGHTED IN GREY BELOW. CONTACT COLUMBIA FOREST PRODUCTS FOR AVAILABILITY OF OTHER CERTIFIED VENEERS.

- 1) Species: [alder] [ash] [bamboo] [basswood] [beech][birch] [cedar] [cherry] [fir] [hickory/pecan] [mahogany] [hard maple] [oak-red] [oak-white] [pine (clear/knotty)] [poplar/tulipwood] [walnut].
- 2) Color selection [natural] [sap (light color)] [heart (dark color)] [_____].
- 3) ANSI/HPVA HP-1 grades: [AA] [A] [B] [C] [D].
- 4) Cut: [rotary] [plain-sliced] [quarter-sliced] [rift cut].
- 5) Veneer Match: [book-matched] [slip match] [random match] [pleasing match] [plank match].

BALANCED CONSTRUCTION (SAME FACE AND BACK SPECIES) IS TYPICAL BUT DIFFERENT, COMPATIBLE SPECIES COMBINATIONS ARE POSSIBLE (E.G. CHERRY WITH A MAPLE BACK) IN SPECIAL CASES. PLEASE CONSULT WITH A COLUMBIA DISTRIBUTOR OR SPECIFICATION AND SPECIALTY PRODUCT REPRESENTATIVE FOR A DETERMINATION OF FEASIBILITY.

b. Back:

READILY AVAILABLE FSC-CERTIFIED BACK VENEERS ARE HIGHLIGHTED IN GREY BELOW. CONTACT COLUMBIA FOREST PRODUCTS FOR AVAILABILITY OF OTHER CERTIFIED VENEERS.

- 1) Species: [alder] [ash] [bamboo] [basswood] [beech] [birch] [cedar] [cherry] [fir] [hickory/pecan] [mahogany] [hard maple] [oak-red] [oak-white] [pine (clear/knotty)] [poplar/tulipwood] [walnut].
 - 2) Color selection [natural] [sap (light color)] [heart (dark color)] [_____].
 - 3) ANSI/HPVA HP-1 grades: [1] [2] [3] [4] [face grades can be also specified as back grades].
 - 4) Cut: [rotary] [plain-sliced] [quarter-sliced] [rift cut].
 - 5) Veneer Match: [book-matched] [slip match] [random match] [pleasing match][plank match].
- 5. Factory Finish: Clear UV cured acrylic coating on [face side] [back side] [both sides]**
- a. Gloss Level: [Satin] [Medium].

END OF PRODUCT SPECIFICATION

This document was prepared specifically for Columbia Forest Products by ASC Specification Consultants. Comments or suggestions for improvement should be addressed to Paul Davis at Columbia Forest Products corporate in Portland, OR. Email: pdavis@cfpwood.com, voice: 503-243-7311

ISSUE DATE: JULY 1, 2007

REVISED COLUMBIA AP CONTACT INFORMATION ONLY DECEMBER 1, 2008
REV. COLUMBIA AP CONTACT INFO, VENEER LISTING, FSC REQUIREMENTS MAY 6, 2009