



SECTION 09 54 26

SUSPENDED WOOD CEILINGS

Wood Ceiling Tiles by Madrid, Inc. are an elegant solution for beautiful wood ceilings. Tiles clip onto a standard suspension grid to form narrow joints and conceal the grid. Tiles are available with Class A surface burning characteristics. Our optional recycled-fiber core material has no added urea formaldehyde and zero VOCs. FSC® Certified veneers and cores are available, and panels have a water-based matte finish. Wood Ceiling Tiles are available with or without acoustical perforations. Custom sizes, perforation patterns, veneers, and finishes are available.

Specification Coordination: Edit this section to satisfy project requirements and coordinate with work of related sections. This document is available in word processing format at madridinc.com; TURN ON HIDDEN TEXT to view or print notes to specifier.

Drawing Coordination: Coordinate guide specification with drawings and schedules. Show locations of each type of ceiling.

Madrid, Inc.

7800 Industry Ave., Pico Riviera, CA 90660

Phone: 562-404-9941, Email: info@madridinc.com. Web: madridinc.com FSC-C115051

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes wood ceiling tiles.
- B. Related Sections:
 - 1. [Section 06 40 23, Interior Architectural Woodwork][06 42 00, Wood Paneling][09 78 00, Interior Wall Paneling]: Woodwork other than wood ceiling tiles.
 - 2. [Section 09 51 13, Acoustical Panel Ceilings][Section 09 53 00, Acoustical Ceiling Suspension Assemblies]: Suspension system.
 - 3. Section 09 54 33, Decorative Panel Ceilings: Coffers to match wood ceiling tiles.
 - 4. Section 09 78 00, Woven Paneling: Woven wood paneling to match coffers.

1.2 REFERENCES

- A. ANSI A208.1: Particleboard.
- B. ASTM C423: Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
- C. ASTM E795: Mounting Test Specimens during Sound Absorption Tests.
- D. ASTM E84: Surface Burning Characteristics of Building Materials.

- E. CISCA Ceiling Systems Handbook.
- F. CISCA Wood Ceilings Technical Guidelines.
- G. [FSC[®] CoC: Forest Stewardship Council[®] Chain of Custody Certification]

1.3 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate suspension grid locations with sizes and locations of wood ceiling tiles.
- B. To extent practical, schedule installation of wood ceiling tiles after work above ceiling is complete.
- C. Preinstallation Meeting: Include installers of suspension grid and wood ceiling tiles. Comply with requirements in [Section 01 31 00 “Project Management and Coordination”.]<Insert Section number and title.>

1.4 ACTION SUBMITTALS

- A. Product Data: For wood ceiling tiles.
 - 1. [Include surface-burning characteristics.]
 - B. Shop Drawings: Submit wood ceiling tile Shop Drawings concurrently with suspension grid Shop Drawings. Include the following:
 - 1. Wood veneer grain direction.
 - 2. Face dimensions of custom-sized tiles.
 - 3. Perforation patterns.
 - 4. Wood veneer locations.
 - C. Samples for Verification: Provide [two]<other number >12- by 12-inch samples of each wood ceiling tile specified, showing two adjacent edges and a corner.
- A. LEED Submittals:
 - 1. LEED Credit MR 4, Recycled Content: Product Data indicating percentage by weight of post-consumer and post-industrial recycled content for products having recycled content. Include a statement indicating costs for each product having recycled content.
 - 2. LEED Credit MR 6, Rapidly Renewable Materials: Product Data indicating percentage by weight of rapidly renewable content for products having rapidly renewable content. Include a statement indicating costs for each product having rapidly renewable content.
 - 3. LEED Credit MR 7: Chain-of-custody certificates certifying that wood products comply with forest certification requirements. Include evidence that manufacturer is certified for chain of custody by an FSC[®]-accredited certification body. Include statement of costs for wood ceiling tiles.
 - 4. LEED Credit EQ 4.4: For each composite-wood product used in ceiling tile fabrication, provide documentation indicating that the bonding agent contains no urea formaldehyde. For each adhesive used in ceiling tile fabrication, documentation indicating that the adhesive contains no urea formaldehyde.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: FSC® Chain of Custody Certification.
- A. Mock-up: No fewer than four tiles, showing full size tiles installed as specified. **[Accepted mock-up may remain in place in completed Work if undisturbed at Substantial Completion.]**

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery and Acceptance Requirements: Do not deliver wood ceiling tiles until specified ambient conditions are met.
- B. Storage and Handling Requirements: Store in conditioned space. Keep ceiling tiles dry.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver wood ceiling tiles after building is enclosed, concrete, plaster, and drywall work is complete, and HVAC system is operating and maintaining temperature and humidity at occupancy levels.
- B. Store wood ceiling tiles in conditioned space. Keep wood ceiling tiles dry.
- C. Conditioning: At least 72 hours before installation, move wood ceiling tiles into spaces where they will be installed.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Acceptable Manufacturer: **Madrid Inc.**
Address: 7800 Industry Ave., Pico Riviera, CA 90660
Phone: 562-404-9941
Email: info@madridinc.com
Web: madridinc.com
- B. Substitutions will not be considered.
- C. Substitutions will be considered according to **[Instructions to Bidders.]****[Division 01 Requirements.]**

2.2 SUSPENSION SYSTEM

- A. Provide 15/16 inch wide suspension system complying with ASTM C635 and as specified in Related Section.

2.3 CEILING TILES

- A. Ceiling Tiles: Wood veneer faced tiles.
 - 1. Product: Madrid, Inc.; Wood Ceiling Tiles.
 - 2. Clip-Attached to Face of Suspension Grid:

- a. Joint: 1/4-inch reveal joint, partially concealing suspension grid.
 - b. Above-Ceiling Access: Downward non-progressive removal of individual tiles with no special tools.
 - 3. Lay-In With Exposed Suspension Grid:
 - a. Square edge.
 - b. Tegular: Reveal sized to fit flange of suspension grid.
 - 4. Face Dimensions: **[24 by 24 inches.] [24 by 48 inches.] <Insert custom size requirements.>**
 - 5. Thickness: **[3/4 inch] [1/2 inch minimum, as required for spacing and loading indicated].**
- B. Performance Criteria:
- 1. **[Surface-Burning Characteristics: Class A per ASTM E84.]**
 - 2. Acoustical Absorption: Per ASTM C423, using mounting type E-400 per ASTM E795.
 - a. NRC: **[0.35] [0.50] <Insert requirement>.**

2.4 MATERIALS

- A. Core:
- 1. Recycled Fiber Core: ANSI A208.1 Grade M-2.
 - a. Product: Madrid, Inc.; Bio-Blend core.
 - b. Recycled Content: 100 percent pre-consumer recycled content, as certified by Scientific Certification Systems.
 - c. Indoor Air Quality: No VOC. No added urea formaldehyde.
 - d. Environmentally Preferred Product: CPA 2-06.
 - e. FSC® Certified.
 - 2. MDF: ANSI A208.2, Grade 130. **[Fire-treated.]**
 - 3. Particle board: ANSI A208.1 Grade M-2.
- B. Face Veneer: Align grain with **[long]** edge of tile **[as indicated in Drawings]**.
- a. **[Plain] [Rift]** sliced oak.
 - b. **[Plain] [Quarter]** sliced cherry.
 - c. **[Plain] [Quarter]** sliced maple.
 - d. **[Plain] [Quarter]** sliced mahogany.
 - e. Natural bamboo, wide strips.
 - f. Dark bamboo, wide strips.
 - g. **<Insert veneer from custom options; see madridinc.com.>**
 - h. FSC® Certified Wood.
- C. Acoustical Backing:
- 1. Non-Woven Felt: **[Black.] <Insert other color.>**
- D. Adhesives: No added urea formaldehyde.

2.5 FABRICATION

- A. Perforation: **[Manufacturer's standard pattern.] [None.] [Custom pattern indicated in Drawings.]**
- B. Edges: Veneer edge banding.

- C. Custom-fabricate edge tiles in sizes indicated in accepted Shop Drawings
- D. Fabrication Tolerances: Complying with CISCA Wood Ceilings Technical Guidelines.

2.6 FINISHES

- A. Shop Finishing: Transparent, water-based UV-cured matte finish. <Insert custom requirements.>

2.7 ACCESSORIES

- A. Trim: [Match veneer and finish of ceiling tile, in profile shown in Drawings.][See related sections for trim supplied as part of suspension system.]
- B. Acoustical Insulation: <Insert requirements.>

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that suspension grid is acceptable for installation of panels.

3.2 INSTALLATION

- A. Ceiling Tiles: Install according to manufacturer's written instructions and CISCA's "Ceiling Systems Handbook."
 1. [Snap clip-on tiles into place][Lay tiles] in suspension grid.
 2. Align grain [as indicated in Drawings.][in quarter-turn pattern.]<Insert requirements.>
- B. Accessories: <Insert requirements.>

3.3 CLEANING AND PROTECTION

- A. Clean panels as recommended by manufacturer.
- B. Prevent damage to panels during remainder of construction period.

END OF SECTION

GridLock™ is trademark of Madrid, Inc.

Copyright 2012 by Madrid, Inc. Qualified design and construction professionals may copy for preparation of construction specifications. Issued July 2012.