

# **5<sup>th</sup> Wall Designs, LLC**

## **Ceiling System Specification**

**Please understand that you are responsible for the accuracy of all project specifications, including any 5th Wall Designs, LLC guide specifications that you use.**

**5th WALL DESIGNS, LLC SHALL NOT BE LIABLE FOR ANY DAMAGES ARISING OUT OF THE USE OF ANY OF ITS GUIDE SPECIFICATIONS.**

### **WOOD GRILLE PANEL SUSPENDED CEILING**

#### **PART 1 - GENERAL**

##### **1.1 SUMMARY**

**A. Component:**

The following describes the component:

**Wood Components – Wood Grille Panel Suspended Ceiling**

- Grille Panel – 1' W x 8' L x 1"

##### **1.2 SUBMITTALS**

- A. Product Data:** Submit manufacturer's technical data for each type of ceiling unit and suspension system required.
- B. Installation Instructions:** Submit manufacturer's installation instructions as referenced in Part 3, Installation.
- C. Shop Drawings:** Layout and details of ceilings. Show locations of items which are to be coordinated with, or supported by the ceilings.
- D. All products not conforming to manufacturer's current published values must be removed, disposed of and replaced with complying product at the expense of the Contractor performing the work.**

### **1.3 QUALITY ASSURANCE**

- A. Single-Source Responsibility: Provide Wood Grille ceiling units by a single manufacturer. 5<sup>th</sup> Wall Designs, LLC
- B. Fire Performance Characteristics (Optional): Identify ceiling components with appropriate markings of applicable testing and inspecting organization.
  - 1. Surface Burning Characteristics: As follows, tested per ASTM E 84 and complying with ASTM E 1264 for Class A products.
    - a. Flame Spread: 25 or less
    - b. Smoke Developed: 50 or less
- C. Coordination of Work: Coordinate ceiling work with installers of related work including, but not limited to building insulation, gypsum board, light fixtures, mechanical systems, electrical systems, and sprinklers.

### **1.4 DELIVERY, STORAGE, AND HANDLING**

- A. Store ceiling components in a dry interior location in their crates prior to installation to avoid damage. Store crates in a flat, horizontal position. The protectors between the wood grille ceiling units should not be removed until installation.
- B. Do not store in unconditioned spaces with humidity greater than 70 percent or lower than 20 percent relative humidity and temperatures lower than 50 degrees F or greater than 86 degrees F. Wood Grille units must not be exposed to extreme temperatures, for example, close to a heating source or near a window with direct sunlight.
- C. Handle wood grille ceiling units carefully to avoid chipped edges or damage to units in any way.

### **1.5 PROJECT CONDITIONS**

- A. Wood ceiling materials should be permitted to reach room temperature and have stabilized moisture content for a minimum of 72 hours before installation. (Remove plastic wrap to allow panels to climatize).
- B. The wood grille ceiling should not be installed in spaces where the temperature or humidity conditions vary greatly from the temperatures and conditions that will be normal in the occupied space.
- C. As interior finish products, the wood panels are designed for installation in temperature conditions between 50 degrees F and 86 degrees F, in spaces where the building is enclosed and HVAC systems are functioning and will be in continuous operation. Relative humidity should not fall below 20 percent or exceed 70 percent. Additionally, the fluctuation in relative humidity should not vary more than 30 percent over the life of the ceiling panels.

## **1.6 WARRANTY**

- A. Wood Grille Unit: Submit a written warranty executed by the manufacturer, agreeing to repair or replace panels that fail within the warranty period. Failures include, but are not limited to:
  - 1. Wood Grille Units: Warping
- B. Warranty Period:
  - 1. Wood Grille Ceiling: Standard - One (1) year from date of substantial completion.
- C. The Warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under the requirements of the Contract Documents.

## **PART 2 - PRODUCTS**

### **2.1 MANUFACTURER**

- A. Wood Grille Ceiling:
  - 1. 5th Wall Designs, LLC

### **2.2 WOOD GRILLE CEILING UNITS**

- A. Wood Grille Units:
  - 1. Surface Texture: Smooth
  - 2. Composition: Solid Wood
  - 3. Finish: Manufacturer's standard finish
  - 4. Species: Maple, Cherry, Red Oak, Others available per request
  - 5. Panel Size: 1' W x 8' L x 1 3/4" H
  - 6. Members Per Panel: 10
  - 7. Member Size: 95 1/4" x 1" x 3/4"
  - 8. Reveal Size: 7/16"
  - 9. Backer: 3/4" H x 1" W x 12" L, 1' On Center, Painted Black
  - 10. Edge Profile: Square
  - 11. Assembly Style: Suspended from heavy duty 15/16" T-rail system
  - 12. Flame Spread (Optional): ASTM E 1264; Class A
  - 13. Dimensional Stability: Standard.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Do not proceed with installation until all wet work such as concrete, terrazzo, plastering and painting has been completed and thoroughly dried out.
- B. Proper design for both supply air and return air, maintenance of the HVAC filters and building interior space are essential to minimize soiling. Before starting the HVAC system, make sure supply air is properly filtered and the building interior is free of construction dust.
- C. Do not proceed with installation until all structural conditions have been completed per the contractor.

### **3.2 PREPARATION**

- A. Measure each ceiling area and establish layout of the wood grille ceiling units to balance border widths at opposite edges of each ceiling. Avoid use of less than half width units at borders, and comply with reflected ceiling plans. Coordinate panel layout with mechanical and electrical fixtures.

### **3.3 INSTALLATION**

- A. Install 5<sup>th</sup> Wall Designs, LLC Wood Grille Ceiling to comply with the manufacturers instructions.
- B. Suspend the ceiling hangers from the building's structural members in compliance with local codes and regulations.
- C. Install the metal T-Bar Grid, align, tie-off, mount and space in accordance with all local codes and regulations.
- D. Install Wood Grille Ceiling Units in accordance per manufacturer's installation instructions and in accordance with all local codes and regulations. Install with undamaged edges and fitted accurately to the T-Bar grid suspension system.

### **3.4 ADJUSTING AND CLEANING**

- A. Replace damaged or broken wood grille ceiling units. Clean exposed surfaces of ceiling units and suspension members. Comply with manufacturer's instructions for cleaning and touch up of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.