WoodWorks® Channeled Tegular

Assembly and Installation Instructions

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1. GENERAL

1.1 Product Description

WoodWorks® Channeled Tegular ceiling panels consist of perforated, veneered 2' × 2' panels that are designed to be installed on conventional 9/16" wide T-Bar suspension systems.

1.2 Surface Finish

Natural Variations™ veneered panels are constructed of wood chips factory-bonded together between two layers of wood veneer finish. All exposed edges are banded with the same finish as the face.

1.3 Storage and Handling

The ceiling components should be stored in a dry interior location and should remain in cartons prior to installation to avoid damage. The cartons should be stored in a flat, horizontal position. The protectors between panels should not be removed until installation. Proper care should be taken when handling to avoid damage and soiling. Do not store in unconditioned spaces with humidity greater than 55% or lower than 25% RH and temperatures lower than 50°F or greater than 86°F. Panels must not be exposed to extreme temperatures, for example, close to a heating source, or near a window where there is direct sunlight.

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1.4 Site Conditions

WoodWorks® Channeled Tegular ceiling materials should be permitted to reach room temperature and have a stabilized moisture content for minimum of 72 hours before installation. (Remove plastic wrap to allow panels to climatize.) They should not, however, 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.

1.5 HVAC Design and Operation

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.

1.6 Temperature and Humidity During Installation

WoodWorks panels are interior finish products designed for installation in temperature conditions between 50°F and 86°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 25% or exceed 55%. There should be proper ventilation of the plenum in high moisture areas. All plastering, concrete, terrazzo, or any other wet work should be completely dry. All windows and doors should be in place. The heating, ventilating, and air-conditioning system should be installed and operable where necessary to maintain proper temperature and humidity conditions before, during, and after installation of the WoodWorks panels.

1.7 Color

WoodWorks panels with Natural Variations™ finishes are made with a variety of real wood veneers. Natural variations in color and grain are characteristic of wood products. To maximize visual consistency, panels should be unpacked and examined collectively to determine the most desirable arrangement for installation. Where consistency is critical, Armstrong can offer custom solutions to meet your budget and aesthetic requirements. Consult HPVA for additional information on veneers and veneer grades.

2. PANEL EDGES

The edges of the Tegular panels feature 1/8" thick splines which support the panel on the grid flanges.

3. SUSPENSION SYSTEM

3.1 General

The suspension system should be standard 9/16" exposed tee grid. The installation should, in all cases, conform to the requirements of the International Building Code and its referenced standards. Because these panels weigh in excess of 2.5 LBS/SF, the ceilings should be installed per IBC Seismic Design Categories D, E, and F. Included in these requirements is the use of stabilizer bars or some other means to positively prevent the suspension system from separating at the walls.

Additionally, walls or soffits that serve to support a panel edge must be braced to the structure so as not to allow movement greater than 1/8" when subjected to design lateral force loads. When such bracing is not practical or is not effective, additional mechanically connected suspension system components should be provided to capture all edges of every panel. Axiom® Perimeter Trim connected to the suspension system with Axiom T-Bar Connector Clips (Item AXTBC) will also meet this requirement. The requirements listed here represent the manufacturer's minimum acceptable installation recommendations, and may be subject to additional requirements established by the local authority having jurisdiction.

3.2 Suspension System

The suspension system for 2' × 2' panels should consist of main beams spaced 48" O.C. The 48" cross tees should intersect the main beams at 90° every 24". The 24" cross tees should be installed at the midpoints of the 48" tees.

Hangers should be spaced no more than 4' O.C. along the length of the main beams and should be located no more than 6" from a cross tee/main beam intersection.

4. INSTALLATION

4.1 Cutting the Panel

WoodWorks Channeled Tegular panels should not be cut for borders. WoodWorks Tegular panels should be used at borders to adequately support the ceiling installation. Cut the panel using standard woodworking tools and, where possible, a straight edge. A table saw is recommended for straight cuts and a band saw for curved cuts. In general, these practices will be typical of those employed in finish carpentry.

♻ **CAUTION! WOOD DUST.** Sawing, sanding, and machining wood products can produce dust. Airborne wood dust can cause respiratory, eye, and skin irritation. The International Agency for Research on Cancer (IARC) has classified wood dust as a nasal carcinogen in humans.

Precautionary measures: If power tools are used, they should be equipped with a dust collector. If high dust levels are encountered, use an appropriate NIOSH-designed dust mask. Avoid dust contact with eyes and skin.

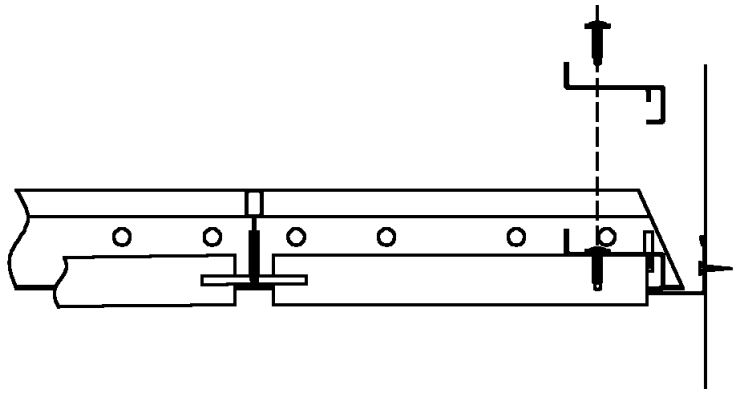
First Aid Measure in case of irritation:
Flush eyes or skin with water for at least 15 minutes.

4.2 Installing the Border Panel

Install these borders just like full-size panels with the cut edge placed toward the wall.

4.3 Attach Border Clips

Apply WoodWorks® Tegular border clips (shipped with the panels) to the cut edge of the panel ***(Fig 1).*** Use one #8 × 9/16" screw in each clip.



(Fig 1)

4.4 Odd Size Panels

Special size panels are available to accommodate less than full modules within the field of the ceiling. A second option would be to field cut these panels to the correct dimension. Examples of conditions that might require this procedure would be odd-sized panels next to a linear air diffuser or 1' × 4' light fixtures.

4.5 Treating Exposed Edges

Cut panel edges that are exposed to view will have to be treated to look like factory edges. Prefinished peel-and-stick edge banding is available for this purpose. Cut edge must be clean and smooth before applying edge banding. Peel off the release paper (edge banding and trimming tools are ordered directly from Armstrong through the Customer Focus Center) and apply the edge banding using finger pressure or a small trim roller. Trim excess material with a sharp knife blade or with the edge trimmer available for order through Armstrong.

4.6 Edge Banding

Prefinished pressure-sensitive adhesive banding is available 15/16" wide and in 25' lengths.

5. SEISMIC RESTRAINT

WoodWorks Channeled Tegular panels are engineered for application in seismic areas. This system has been successfully tested in applications simulating Seismic Design Categories D, E, and F.

6. CLEANING RECOMMENDATIONS

WoodWorks Channeled Tegular panels can be cleaned with a soft, dry cloth.

MORE INFORMATION

For more information, or for an Armstrong Ceilings representative, call 877 276-7876.
For complete technical information, detail drawings, CAD design assistance, installation information, and many other technical services, call TechLine customer support at 877 276-7876 or FAX 800 572-TECH.

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