



## CEILING SYSTEMS

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# WOODWORKS® Tegular Installation Instructions

## 1. GENERAL

### 1.1. Product Description

WoodWorks Tegular ceilings consist of perforated and unperforated 2' x 2' panels designed to be installed on conventional 9/16" wide T-bar suspension systems.

#### *Surface Finish*

All wood panels shall be constructed of wood chips factory bonded together between 2 layers of wood veneer finish. All exposed edges are banded with the same finish as the face.

### 1.2 Storage and Handling

The ceiling components shall be stored in a dry interior location and shall remain in cartons prior to installation to avoid damage. The cartons shall 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.

### 1.3 Site Conditions

WoodWorks 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.

### 1.4 HVAC Design & 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.

### 1.5 Temperature & 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 shall not fall below 25% or exceed 55%. There shall 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.

### 1.6 Color

WoodWorks panels 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

### 2.1 General

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 shall be standard 9/16" exposed tee grid. The installation shall, in all cases, conform to ASTM C-636 requirements and the International Building Code. Because these panels weigh in excess of 2.5 lb/sf, the ceilings shall be installed per CISCA Seismic Zones

3-4, as modified by the IBC. Additionally, walls or soffits that serve to support a panel edge must be braced to structure so as not to allow movement greater than 1/8" when subjected to design lateral force loads. 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 Load Capacity

WoodWorks Tegular ceiling panels weigh approximately 2.75 lbs/sf. Main beams must be capable of supporting the weight of the panels plus any additional ceiling components that are not independently supported from the building structure. The minimum acceptable load capacity for the main beam when supporting only ceiling panels is 11 lb/lf, and the 4' cross tees must be capable of carrying a minimum of 5.5 lb/lf. These weights are just within the lower limit for an intermediate duty grid system. Job conditions may indicate the need to use a heavy-duty system or to reduce the hanger wire spacing to increase the load carrying capacity of the grid.

### 3.3 Suspension Grid

Tegular panels install in a 2' x 2' module. The main beams shall be spaced 48" o.c. The 48" cross tees shall intersect the main beams at 90° every 24". The 24" cross tees shall be installed at the midpoints of the 48" tees.

## 4. INSTALLATION

### 4.1 Cutting the Panel

Cut the panel using standard woodworking tools and techniques. A table saw is recommended for straight cuts and a band saw for curved cuts. In both cases, panels should be cut face up to minimize chipping of the face veneer. Fine-toothed blades recommended for finish cuts will yield the best results.

### 4.2 Cutting the Border Panel

A router can be used to cut a tegular edge on border panels, or a straight cut off is possible if border clips are used to support the cut edge of perimeter panels. One border clip is required for each foot of panel edge (i.e. one clip for edges up to 12" long and 2 clips for edges greater than 12" up to 24"). Eight clips and ten screws are provided in each carton of material.

**▲ 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.

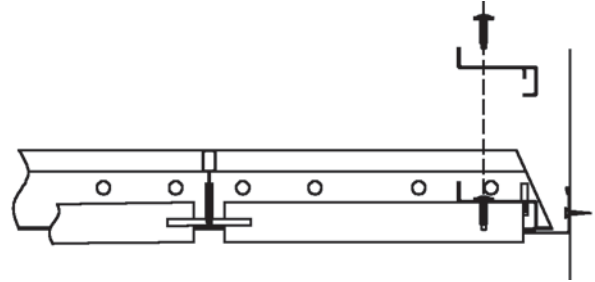
**Precautionary measures:** If power tools are used, they should be equipped with a dust collector. If high dust levels are encountered, use an appropriate NIOSH-designed dust mask. Avoid dust contact with eyes and skin.

#### First Aid Measure in case of irritation:

Flush eyes or skin with water for at least 15 minutes.

### 4.3 Attach Border Clips

Apply WoodWorks Tegular border clips to the cut edge of the panel as shown. Use one #8 x 9/16" screw in each clip.



### 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' x 4' light fixtures.

### 4.4 Treating Exposed Edges

Cut panel edges that are exposed to view will have to be treated to look like factory edges. Pre-finished peel and stick edge banding is recommended for this purpose. Cut edge must be clean and smooth before applying edge banding. Peel off the release paper and apply the edge banding using finger pressure or a small trim roller. Trim excess material with a sharp knife blade or a chisel.

### 4.5 Ordering Edge Banding Material

Pre-finished pressure sensitive adhesive banding is available 15/16" wide and in 50' lengths. Standard colors include Cherry, Maple and Anigre (Steamed Beech). Many other standard veneer choices are also available. Several vendors can provide pre-finished banding. The brand of banding used is of no consequence as long as the finish is an acceptable match to the face veneer. One such vendor is:

Fastcap (Fastedge products)  
3725 Irongate Road, Suite 105  
Bellingham, WA 98226  
Customer Service Phone: (888) 443-3748  
Web: [www.fastcap.com](http://www.fastcap.com) for distributor locations

## MORE INFORMATION


For more information, or for an Armstrong representative, call 1 877 ARMSTRONG

For complete technical information, detail drawings, CAD design assistance, installation information and many other technical services, call TechLine™ services at 1 877 ARMSTRONG or FAX 1 800 572 TECH.

For the latest product selection and specification data, visit [armstrong.com/ceilings](http://armstrong.com/ceilings)

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