

CEILING SYSTEMS

[Between us, ideas become reality.]®

ULTIMA® Plank with Shiplap Edge Detail Installation Instructions

1. GENERAL

1.1. Product Description

The Ultima products referenced in these instructions are made from mineral fiber. Panels are designed to be installed on a conventional T-bar suspension system. Plank panels are available in 24" x 60" and 24" x 72" sizes. Ultima Plank Tegular panels can be used with standard Ultima 12" x 24", 24" x 24", and 24" x 48" panel sizes. Tegular planks must be used to maintain a consistent visual with standard size panels.

1.2. Surface Finish

Ultima Plank features the Armstrong DuraBrite® finish. The surface of these panels is scratch and soil resistant, washable and non-directional. The panel edges are finished with a factory-applied paint finish.

1.3. Storage and Handling

The ceiling panels 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 position. Proper care should be taken when handling to avoid damage or soiling.

NOTE: Shiplap edges are exposed. Exercise appropriate care to avoid unnecessary contact with the panel edges. Remember that the grid flanges will not conceal panel edge damage.

1.3.1. Working With Fiberglass & Mineral Fiber Products FIBERGLASS CEILINGS

MAN-MADE VITREOUS FIBER CEILING PANELS

⚠ WARNING THIS PRODUCT CONTAINS MAN-MADE VITREOUS FIBERS. POSSIBLE CANCER AND RESPIRATORY TRACT HAZARDS. CAN CAUSE TEMPORARY RESPIRATORY, SKIN AND EYE IRRITATION.

1.3.2. Precautionary Measures: During the installation be certain that the work site is well ventilated and avoid breathing dust. If high dust levels are anticipated during installation such as with the use of power tools, use appropriate NIOSH designated dust respirator. All power cutting tools must be equipped with dust collectors. Avoid contact with skin or eyes. Wear long-sleeve, loose fitting clothes, gloves and eye protection.

1.3.3. First Aid Measures: If contact occurs flush eyes and skin irritation with plenty of water for at least 15 minutes and remove contaminated clothing. After installing material, wash with warm water and mild soap. Wash work clothes separately from other clothing. Rinse washer thoroughly. Refer to Armstrong MSDS (which includes information on established occupational exposure limits) which are available from Armstrong or your employer.

1.4. Site Conditions

Building areas to receive ceilings shall be free of construction dust and debris. Products with HumiGuard® Plus performance can be installed in conditions between 32°F (0°C) and 120°F (49°C) and in spaces before the building is enclosed, where HVAC systems are cycled or not operating. These products are not recommended for exterior applications or where standing water is present or where moisture will come in direct contact with the ceiling.

1.5. Plenum

Installation requires a minimum of space in the plenum, primarily that which is required to install the hanger wires for the suspension system. Four inches (4") is generally accepted as the minimum practical space that is needed to attach these wires whereas three inches (3") is required for Tegular or Lay-in plank panel installation.

NOTE: Light fixtures and air handling systems require more space and will determine the minimum plenum height for the installation.

2. PANEL EDGES

2.1. General

Ultima Plank panels feature a Shiplap long and Tegular or concealed short side.

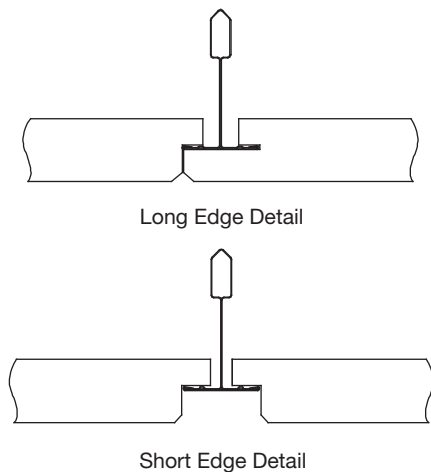
2.2. Installing Planks with Shiplap Edges in a Corridor Application Using Acoustical Locking Angle Molding

Ultima Plank panels are available with either Tegular or concealed edge details on the short sides. Work carefully when using the Tegular version to ensure that the mains are cut such that cross tees will be installed square to the mains.

NOTE: Ultima Plank with Lay-in and Tegular edges (non-Shiplap) are installed using regular procedures.

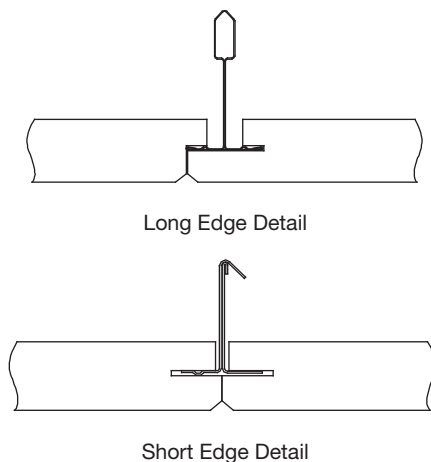
2.3. Shiplap Long Edge, Tegular Short Edge Installation

Install cross tees as required. Cut panels if necessary and install by carrying the panel up through the grid opening and then leading the Shiplap edge under the flange of the main. The Tegular edge opposite the Shiplap will fall into place on the grid flange when the panel is properly seated.



2.4. Shiplap Long Edge, Concealed Short Edge Installation

Install 2' long Concealed Angles (#7427) and Access Hooks (#7428) at all panel end joints.



Ultima Plank panels with Shiplap edge are directional. Once the first panel is installed in the grid, all others must be installed in the same direction.

Tegular cuts must be provided on all panel edges that meet the Locking Angle Molding.

3. FULL ROOM INSTALLATION

3.1. General

The suspension system shall be standard exposed tee grid. The suspension system, whether new or existing, shall be properly installed and leveled using not less than 12-gage galvanized steel wire. Suspension system installation shall conform to ASTM C636 requirements.

3.2. Suspension Grid

Ultima Plank panels install in a 2' x 6' (24" x 72") or 2' x 5' (24" x 60") module. The main beams and cross tees must be installed to create the Ultima Plank module sizes as detailed on the reflected ceiling plan. The suspension system must be leveled to within 1/4" in 10' and must be square to within 1/16" in 2'. Installation on grid systems that do not meet this tolerance will produce unacceptable panel alignment.

4. CORRIDOR INSTALLATION

Install the mounting rail, Locking Angle Molding and gussets.

4.1. How to Install Locking Angle Molding

4.1.1. Lay out the space to provide equal borders at opposite ends of the room. Borders should be greater than one half the dimension of the plank whenever possible. Establish a level line at the elevation shown in the construction documents.

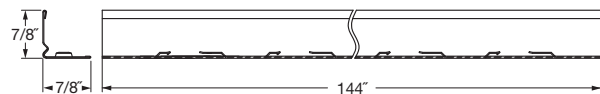
4.1.2. Cut and install the first section of Locking Angle Molding so that the center mark at the first lock is positioned to receive the first main beam. Attach the molding to the walls with fasteners appropriate for the construction. The locking details must be on the horizontal leg of the molding.

4.1.3. Continue to install sections of molding along this first wall by butting factory-cut ends together. Trim shorter sections of molding carefully to maintain 12" from the cut end to the center mark of the first lock.

4.1.4. Extend a line (laser or string) across the space at the center mark of the first lock. Make sure that this line is set 90° to the surface of the wall where molding has been attached.

4.1.5. Trim a length of molding to position the center mark at the reference line on the opposite wall. Continue installing sections of molding butted end to end.

4.1.6 The molding installed on the walls parallel to the mains should be oriented with the locking details on the vertical flange, or use standard angle molding.



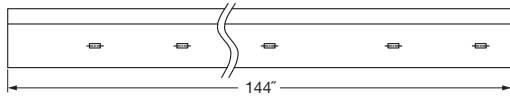
12' Capped Locking Wall Angle Molding (LWA12)

4.2. How to Install Support Track

4.2.1. Attach support tracks to the wall above the Locking Angle Molding.

4.2.2. Hold the bottom edge of the support track 7-1/4" for 8" gusset, or 11-1/4" for 12" gusset above the horizontal flange of the Locking Angle Molding.

4.2.3. Fasten the support tracks to the structure of the wall using fasteners appropriate for the construction. The support track sections have pre-punched holes spaced every 4" along their length to facilitate attachment.



12' Support Track (LWAWT12)

4.3. How to Install Main Beams

4.3.1. Cut and install main beams to extend across the space.

4.3.2. Measure and cut carefully. Rout placement is not important when a single ceiling plank is extended wall to wall. However, when more than one Tegular plank will span the space, main beams must be cut to maintain alignment of the rout holes.

4.3.3. Engage the ends of the mains into the locking details on the molding by first sliding the grid flange under the tab to the left, then back under the right-hand tab.

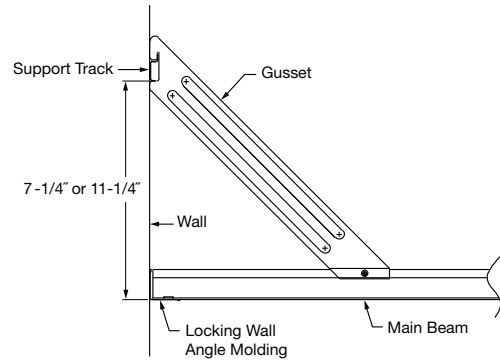
4.4. How to Install Gussets

4.4.1. Hang the gussets on the support track over every end of every main beam.

4.4.2. Insert a #6 x 7/16" long sheet metal screw through the hole provided in the gusset and into the bulb of the main beam.

There will be a hole and slot in the gusset. On one end of the mains the screw will be placed in the hole. It will go into the slot on the opposite end.

Specified ceiling panels can now be cut and installed to complete the installation.



Gusset (LWAGU8 and LWAGU12)

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 TechLineSM services at 1 877 ARMSTRONG or FAX 1 800 572 TECH.

For the latest product selection and specification data, visit armstrong.com/ceilings.

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