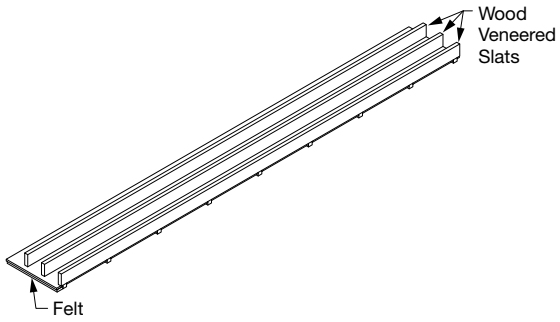
WoodWorks® Sensoria™ – Blades for Walls

Assembly and Installation Instructions

1. GENERAL

1.1 Product Description

WoodWorks® Sensoria™ – Blades is a veneer wood grille wall system offered in nominal 1' × 4' and 1' × 8' panel sizes, featuring 2-1/2" deep slats with a 3/4" thickness. A 9mm thick black felt backing conceals the substrate behind the system, providing a clean, refined appearance and creating a seamless transition between adjoining panels for a continuous linear aesthetic. Panels are installed using screws into plywood substrates that are mechanically fastened to the supporting structure ***(Fig 1)***.



(Fig 1)

Multiple slat configurations are available. Refer to the product data page for slat quantity options and panel configurations.

Read these installation instructions in their entirety before work to avoid unnecessary rework.

1.2 Storage and Handling

WoodWorks Sensoria – Blades is a made-to-order product produced and shipped on-demand with proper dimensions and conditions similar to what they should be installed in as per our warranty conditions. All product components should be stored in a dry interior location and shall remain in the original packaging prior to acclimation and installation to avoid damage. The materials shall be stored off the floor in a flat, level condition. Do not store in unconditioned spaces with humidity greater than 55% or lower than 25%, or with temperatures above 86°F or lower than 50°F. Use proper care when handling to avoid damage or soiling. WoodWorks Sensoria – Blades panels can be cleaned with a soft dry cloth.

1.3 Site Conditions

WoodWorks Sensoria – Blades panels should be permitted to reach room temperature and have a stabilized moisture content for a minimum of 72 hours before installation. 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.

1.3.1 HVAC Design

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 air supply is properly filtered, and the building interior is free of construction dust.

Armstrong®
World Industries

1.3.2 Temperature and Humidity During Installation

WoodWorks® Sensoria™ – Blades are interior finish products that are designed for installation to be carried out in temperature conditions between 50°F (10°C) and 86°F (30°C), in spaces where the building is enclosed, and HVAC systems are functioning and will be in continuous operation.

Relative humidity levels maintained between 25% RH and 55% RH. Additionally, the fluctuation in relative humidity should not vary more than 30% over the life of the wall panels. All plastering, concrete, terrazzo, or any other wet work should be completely dry. All window and doors must be in place. The heating, ventilation and air-conditioning system should be installed and operable where necessary to maintain proper temperature before, during and after installation of the WoodWorks Sensoria Blade panels. Real wood and wood composite products are natural building materials, and they will react to changes in humidity and temperature. (Wood tends to contract with lower humidity and expand with higher humidity.) Wood may also have a tendency to warp, twist, or bow, due to the natural stresses in the components and these humidity changes. Be aware of these natural tendencies when evaluating the products and suitability of this product in your space.

1.4 Material and Surface Finish

Panels feature a fire-retardant particleboard core with a real wood veneer finish. Exposed edges are edge-banded to match the panel face. The assembly is completed with black-finished plywood backers, black-finished poplar hanging backers, and a 9mm black felt backing.

1.5 Color

WoodWorks Sensoria – Blades panels are available in a variety of standard slat finishes. Refer to data page for finish options. The 9mm felt backing is standard in black, regardless of slat finish.

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.

IMPORTANT NOTE: For phase projects or large quantities orders, it is recommended to work with your local rep to give advance notice prior to placing an order. This will allow the manufacturing facility to secure the quantity of material needed for your project and have the best chance to produce coordinating slats for a selected finish.

1.6 Ordering Considerations

Be sure to account for extra material that is normally needed for wood installations. When installing WoodWorks Sensoria – Blades panels, you should consider ordering at least 5% extra material. Up to 10% more may be needed for odd size or unique installations. It is the customer's responsibility to plan each layout and order the correct amount of installation material needed, taking into account their design. If extra material is ordered after the first batch of material has been placed, panels will be produced to best coordinate with the finish of the first order.

1.7 Cleaning Recommendations

There are three methods that we recommend for cleaning a WoodWorks Sensoria – Blades panel. First, the panels can be vacuumed to remove any dust or dirt that may accumulate on the slats, backers, or felt. Nozzle attachment tools for vacuums are especially useful when cleaning between slats. Second, use a clean, dry, soft cloth to wipe off any dirt or greasy fingerprints or blot stain on felt part of the panel. Do not rub paper products such as facial tissue on to the felt material, as this could result in paper particulates being rubbed onto the material. If this does not clean the panel, use a damp, clean, soft white cloth, or sponge with a mild detergent to wipe the panel, however, chemicals such as bleach and any type of solvent based products including acetone and isopropanol alcohol will discolor the felt. Third, for scuff marks that may have transferred from the backers to the slats; use a clean, soft white cloth with either naphtha or mineral spirits to clean scuff marks on slats. We recommend wiping the slats with normal pressure, and do not recommend scrubbing the slats with the cloth. Material should air-dry; no heat should be used to speed the drying process.

2. DESIGN AND INSTALLATION CONSIDERATIONS

WoodWorks Sensoria – Blades panels are designed for wall installation and can be mixed within a wall space in varying panel lengths or staggered to create visual patterns. As you design your space, consider the following:

2.1 Panel Orientation

Panels may be installed either vertically or horizontally on the wall. Each panel is manufactured with a male side and a female side. For optimum aesthetics and ease of installation, it is recommended that the male backers face to the right when panels are installed vertically and face upward when panels are installed horizontally.

2.1.1 Lighting Integration

For installations incorporating lighting, panel orientation is critical in vertical installation. When panels are installed vertically, male backers must always be oriented to the right to ensure proper lighting engagement. This requirement should be considered during the design and layout of the wall system. Refer to WoodWorks® Sensoria™ – Blades Lighting Integration instructions for additional details.

2.2 Faceted/Curved Installations

It is not recommended to install WoodWorks Sensoria – Blades in a curved or faceted application.

2.3 1" Reveal Between Panel Ends

WoodWorks Sensoria – Blades panels will have a 1" reveal between slat ends; consider this when designing and laying out the wall space. The 1" spacing between slat ends must be maintained. Any modifications done to the panel to eliminate this spacing will be an unwarranted condition.

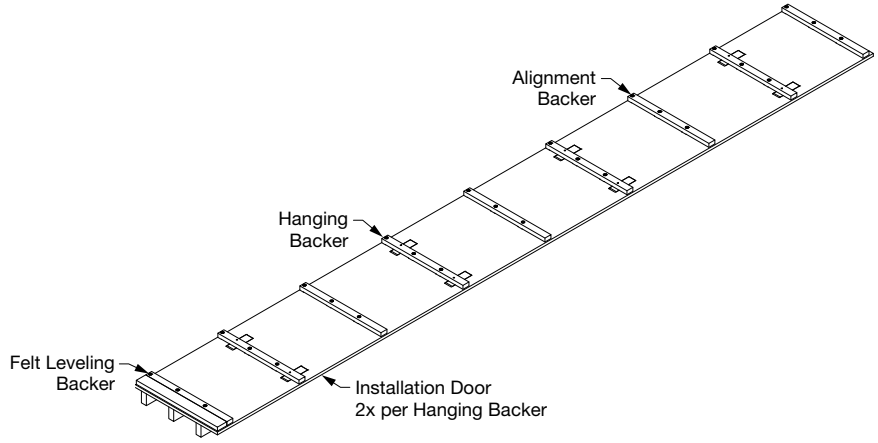
3. ACCESSORIES

3.1 Finish Options for Cut Ends

Item 6408D5: 1-1/4" Edge banding

4. INSTALLATION

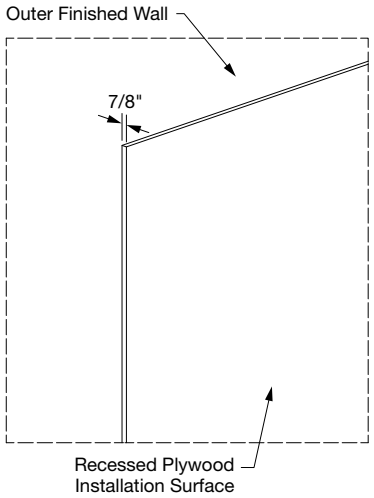
WoodWorks Sensoria – Blades panels are screw-attached to the wall and install progressively across the surface. Panels are comprised of alignment backers, felt leveling backers, and hanging backers ***(Fig 2)***.



(Fig 2)

4.1. Preparing the Wall

For optimal installation, it is recommended that the panels be mounted to 3/4" plywood which has been directly attached to structure. To achieve the best visual appearance, provide a recessed wall surface with a minimum depth of 7/8". This depth accommodates the 1/2" backer and 9mm (3/8") felt backing and allows the perimeter to cap and conceal the exposed backer and felt ***(Fig 3)***.

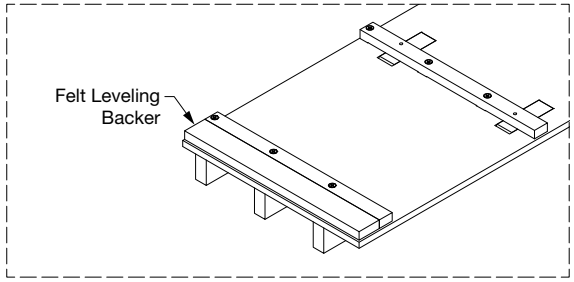


(Fig 3)

4.1.1. Wall Prep for Infill Panels

Furring should only be used when additional space is required behind the panels for acoustic infill. In such cases, install plywood first, then attach the furring over the plywood. Ensure furring locations align with the panel hanging backers to provide proper attachment points and support. The recessed wall depth must also accommodate the furring thickness to keep it concealed behind the panel system.

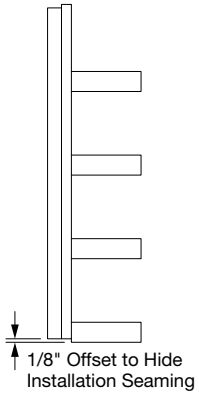
When furring is used, it must align with the panel hanging backers and be spaced at 24" O.C. At panel joints, additional furring will be required to provide direct support for the panel leveling backers at panel end, ensuring proper alignment and a clean, consistent reveal between adjacent felt ends ***(Fig 4)***. Acoustic infill panels should be trimmed as required to accommodate the additional furring.



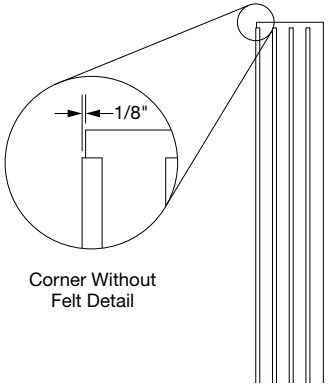
(Fig 4)

4.2. Border Panels

Due to the male-and-female edge construction of the panels, walls should not begin with a full panel ***(Fig 5)***. The female edge requires an adjacent panel to conceal the unfinished area behind the slats; therefore, a border panel should be used as the starting panel ***(Fig 6)***.

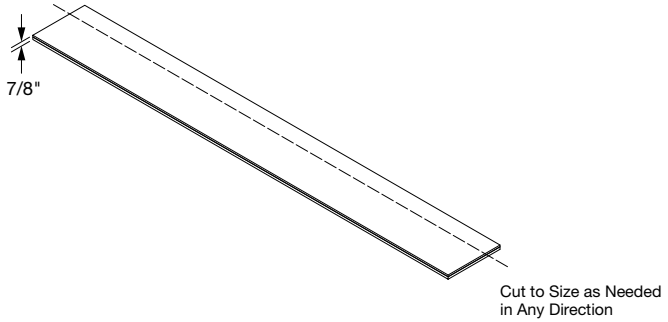


(Fig 5)

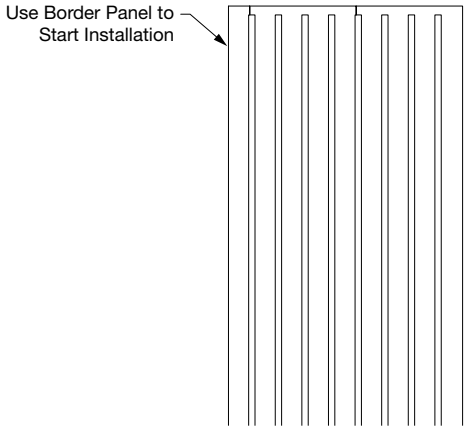


(Fig 6)

Determine the required border panel width based on the project layout, cut the panel to size, and secure it to the mounting surface using pin nails ***(Figs 7 & 8)***.



(Fig 7)

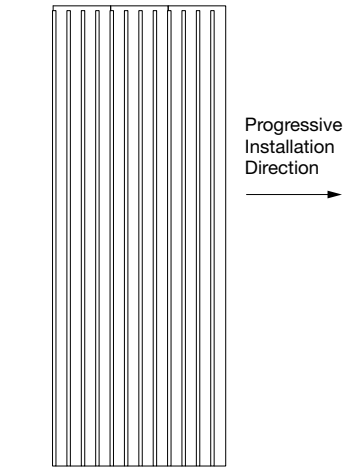


(Fig 8)

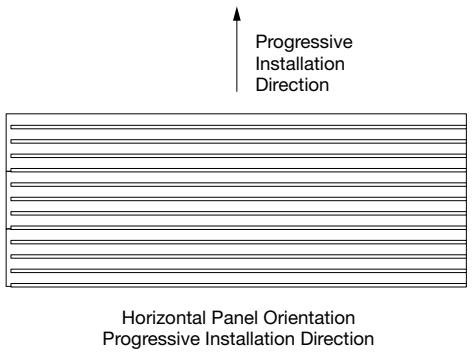
Border panels are versatile components that can be used as starter panels, base panels, or to scribe to the floor and other adjoining surfaces. They are recommended at all wall perimeters and, when required by the design or layout, may also be used within the field as a substitute for a full panel. Their multi-use design provides flexibility to accommodate a variety of project conditions and aesthetic requirements.

4.3. Field Panel Installation

Panel installation is progressive. After the border panel has been installed, begin installing the field panels. Before fastening, verify that each panel is oriented correctly. For vertical installations, position the male edge on the right and the female edge on the left ***(Fig 9)***. For horizontal installations, position the male edge at the top and the female edge at the bottom ***(Fig 10)***.

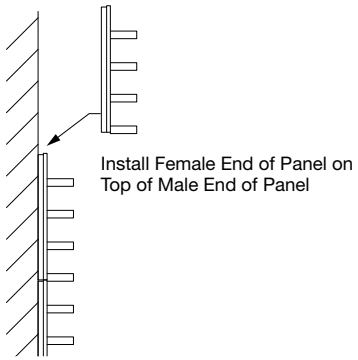


(Fig 9)



(Fig 10)

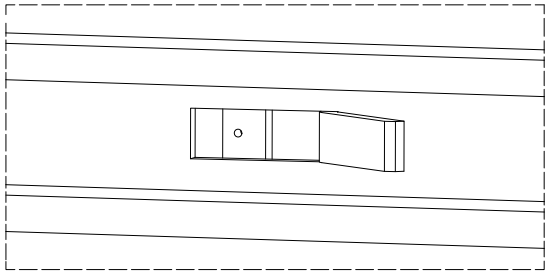
As each field panel is installed, the female edge overlaps the male edge of the adjacent panel to create a continuous, seamless appearance ***(Fig 11)***.



(Fig 11)

4.4. Fastening Panels

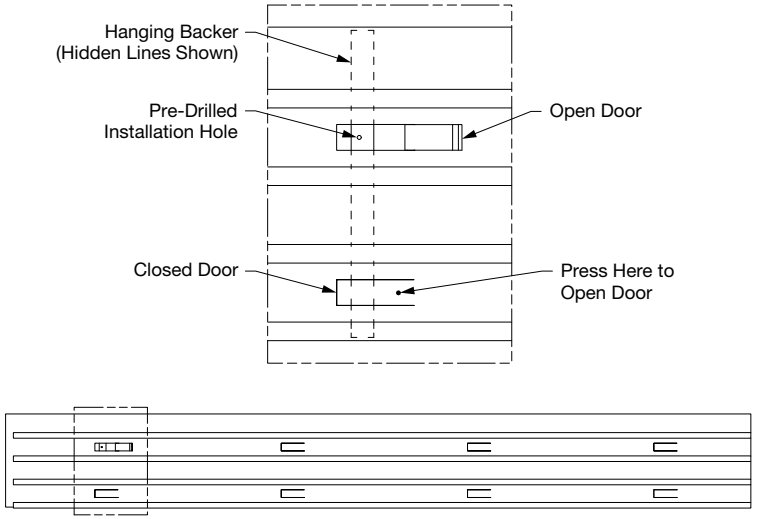
Panels are attached using #6 × 1-1/4" drywall screws. For installation convenience, each panel is manufactured with factory pre-drilled holes, concealed behind integrated trap doors that align with hanging backers. This feature provides a designated fastening location while allowing screws to remain hidden after installation for a clean, finished appearance ***(Fig 12)***.



(Fig 12)

4.4.1. Locating and Opening Trap Door

Trap doors are located between slats and aligned with the hanging backers. To open a trap door, press on the uncut end. This will cause the opposite end to lift. Once lifted, use your fingers to fully open the trap door ***(Fig 13)***.

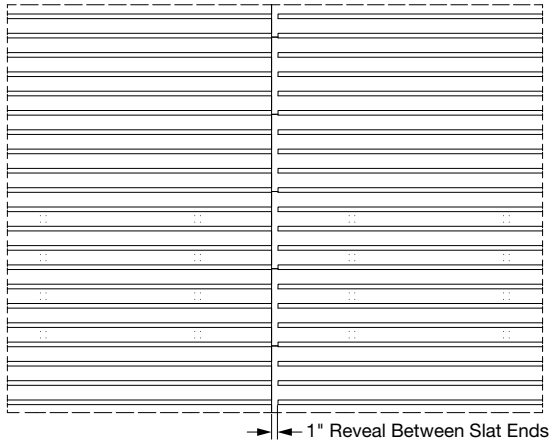


(Fig 13)

Secure each hanging backer with two screws, installing one screw through each trap door location. After fastening is complete, close the trap doors to conceal the screws and maintain the finished appearance of the panel.

4.5. Reveal Between Slat Ends

WoodWorks® Sensoria™ – Blades panels are manufactured to provide a 1" reveal between slat ends. The reveal is established by the 1" felt overhang, ensuring consistent spacing and alignment throughout the installation ***(Fig 14)***.



(Fig 14)

Do not alter the factory-designed reveal in the field, as modifications will result in an unwarranted condition.

5. LIGHTING INTEGRATION

For installations incorporating Armstrong Integrated Lighting, refer to the Armstrong Integrated Lighting for WoodWorks Sensoria – Blades supplemental installation instructions for additional details and requirements.

6. CUTTING

WoodWorks Sensoria – Blades panels can be cut to fit receptacles or other wall fixtures. Use normal woodworking tools to achieve the desired opening. Use recommended edge banding to finish exposed field cut edges to coordinate with slat finish.

When cutting WoodWorks Sensoria – Blades, normal woodworking tools, (e.g., jigsaw, circular saws, saber saws, coping saws, etc.) can be used along with 80 tooth blades (the more teeth the blade has the better). Penetrations for sprinklers (or other fixtures) can be accomplished by simple interruption of the wood slats at those locations or by using normal woodworking tools to cut access in the slats. Refer to Section 6.1 for instructions on special considerations that may need to be taken when field cutting panels.

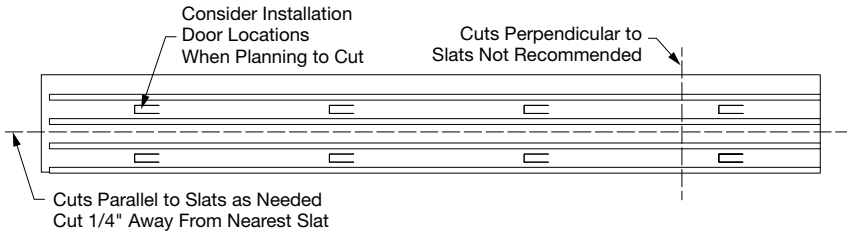
CAUTION: WOOD DUST. Sawing, sanding, and machining wood products can produce dust. Airborne wood dust can cause respiratory, eye, and skin irritation. The International Agency for Research on Cancer (IARC) has classified wood dust as a nasal carcinogen in humans.

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: In case of irritation, flush eyes or skin with water for at least 15 minutes.

6.1. Cutting Recommendations

Cuts made along the length of the panel should be located at least 1/4" away from the nearest slat. When cuts require field patching, the use of border panels is recommended to fill in any gaps and provide a clean, consistent aesthetic finish ***(Fig 15)***.



(Fig 15)

MORE INFORMATION

For more information, or for an Armstrong 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.

All trademarks used herein are the property of AWI Licensing LLC and/or its affiliates.

© 2026 AWI Licensing Company Printed in the United States of America

Armstrong®
World Industries