Armstrong Integrated Lighting for WoodWorks® Sensoria™ – Blades

Assembly and Installation Instructions

1. GENERAL

The WoodWorks® Sensoria™ – Blades integrated lighting panel features factory-installed mounting brackets designed to simplify the field installation of linear lighting fixtures. These brackets are strategically located to fit between slats, creating a dedicated and secure attachment point for the approved light fixtures.

This integrated solution preserves the integrity of the wood panel system by eliminating the need for field modifications. The factory-installed brackets are coordinated with the lighting fixture and panel geometry to align with the slat depth, ensuring a clean, precise fit and consistent visual appearance ***(Figs 1 & 2)***.

Integrated lighting panels are available in 4' and 8' lengths and are fully compatible with standard WoodWorks Sensoria – Blades panels.

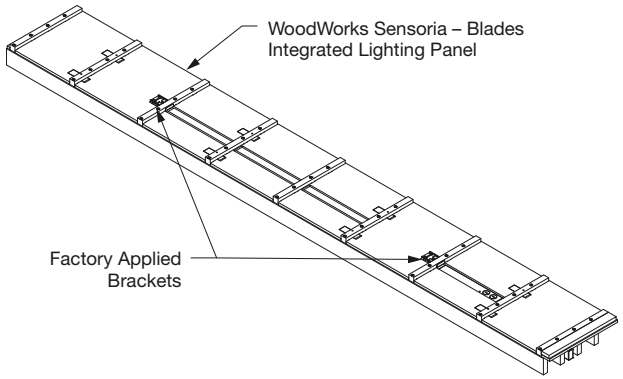
The linear light fixtures are sold by LightArt®.

IMPORTANT NOTE: Installation requires collaboration between the ceiling/carpenter contractor and the electrical contractor.

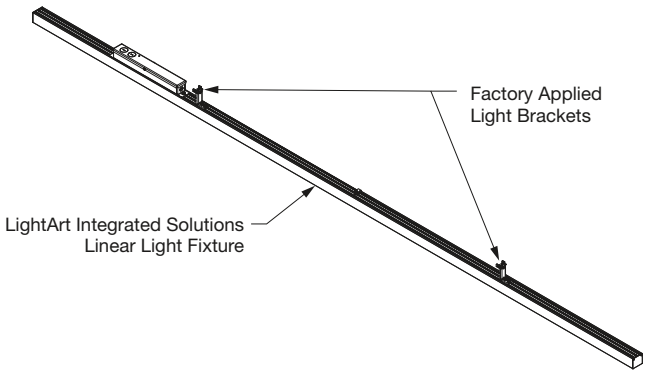
- Ceiling/Carpenter Contractor: Installs the WoodWorks Sensoria – Blades system with integrated lighting panels and performs minor adjustments as needed.
- Electrical Contractor: Installs the drivers, the linear light and completes wiring and power connections.

Because the integrated lighting panels and wall system interact closely, ongoing collaboration between both trades is essential to ensure a smooth installation process.

NOTE: Linear lights are supplied by their respective manufacturers. Coordinate product delivery and power requirements with the electrical contractor.



(Fig 1)



(Fig 2)

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1.1 Storage and Handling

All product components should be stored in a dry interior location and should remain in the original packaging prior to installation to avoid damage. The materials must 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.

Nesting panels during storage or handling is strictly prohibited, as it may result in damage to the panel light brackets.

1.2 Site Conditions

Building areas that will receive this panel system must be free of construction dust and debris. Installation of the products must be carried out where the temperature is between 50°F and 86°F and relative humidity levels maintained between 25% RH and 55% RH. These temperature and humidity conditions must be met throughout the lifetime of the wall space.

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. It is also necessary for the area to be enclosed and for the HVAC systems to be functioning and in continuous operation. All wet work (plastering, concrete, etc.) must be complete and dry. These products cannot be used in exterior applications. To ensure that the panels have stabilized to the current building conditions, before their installation, Armstrong recommends uncrating and keeping panels on the skid and placing panels in an environmentally stable building location for a minimum of 72 hours.

1.3 Safety Recommendations

All personnel must wear appropriate PPE, including, safety glasses, gloves, and footwear. Ensure all necessary tools needed for proper wiring of fixture to supply circuits is used.

Use a ladder, mobile scaffolding, or scissor lifts appropriate for the wall height and site conditions.

2. ACCESSORIES

2.1 WoodWorks Sensoria – Blades Integrated Lighting Panel

System Compatibility: WoodWorks Sensoria – Blades integrated lighting panels are designed as direct replacements for standard WoodWorks Sensoria – Blades panels and are installed using the same attachment method. For detailed wall installation requirements, refer to the WoodWorks Sensoria – Blades installation instructions.

Visual Alignment: Factory-installed lighting brackets are designed to align with the slat profile and depth, ensuring the lighting fixture integrates seamlessly with the panel system and maintains a consistent visual plane without the need for field adjustments.

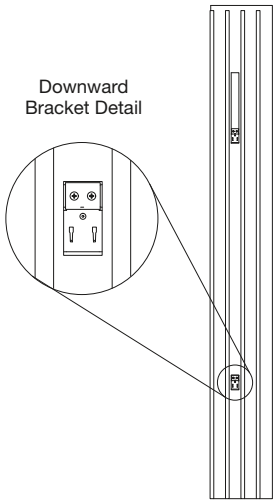
Maintenance and Accessibility: The screw-attached panel design allows the entire lighting panel to be removed when required, providing convenient access to the fixture for inspection, maintenance, or replacement. Additionally, the fixture's hook-on mounting feature enables the fixture to be detached independently of the panel when only fixture removal or servicing is needed.

3. SUSPENSION SYSTEM

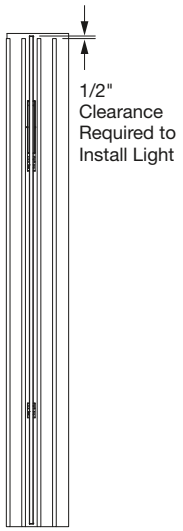
Refer to project-specific drawings for exact locations and layout of the linear light fixtures. WoodWorks Sensoria – Blades are installed progressively across the wall during the installation process. The ceiling/carpenter and electrical contractor must communicate clearly throughout the installation to ensure a smooth installation process.

3.1 Ceiling/Carpenter Contractor Scope: Installing Plywood

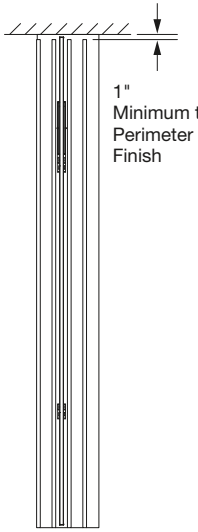
Prepare the wall in accordance with the standard WoodWorks® Sensoria™ – Blades wall installation instructions. Install black plywood backing as required to provide adequate structural support for the panels. Ensure that each hanging backer has a secure attachment point to the supporting structure and is fastened with a minimum of two screws per backer. Light fixtures require approximately 1/2" of clearance, regardless of panel orientation, to engage the factory-installed mounting brackets on the panel. To accommodate this installation movement, a minimum 1" clearance at the top or side of the wall panel system is recommended and should be incorporated into the wall preparation and layout prior to panel installation ***(Figs 3-5)***.



(Fig 3)



(Fig 4)



(Fig 5)

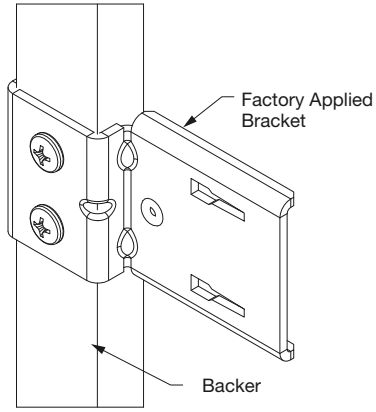
3.2. Electrical Contractor Scope: Preparing the Wall

Install all required junction boxes and perform all wiring in accordance with the LightArt® Integrated Solutions Installation Instructions for WoodWorks® Grille Walls.

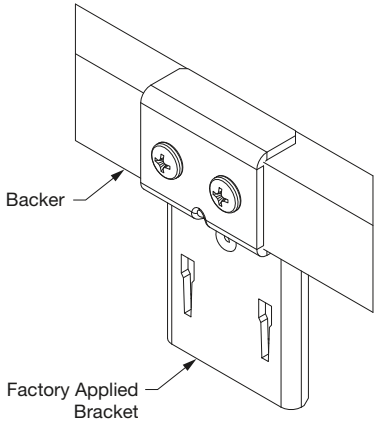
3.3. Ceiling/Carpenter and Electrical Contractor Scope: Panel Installation

This phase of the installation requires coordination between the ceiling/carpenter contractor and the electrical contractor to ensure proper panel and fixture installation. Before installing the integrated lighting panels, verify that a minimum 1" clearance is available at either the top or side of the wall.

The LightArt® linear fixtures engage the factory-installed mounting brackets using a hook-style connection and require approximately 1/2" of upward or side way movement during installation. The ceiling/carpenter contractor shall install the WoodWorks Sensoria – Blades panels and WoodWorks Sensoria – Blades integrated lighting panels progressively across the wall in accordance with the drawing layout. Integrated lighting panels are manufactured with factory-attached mounting brackets designed to support the light fixtures ***(Figs 6-7)***.



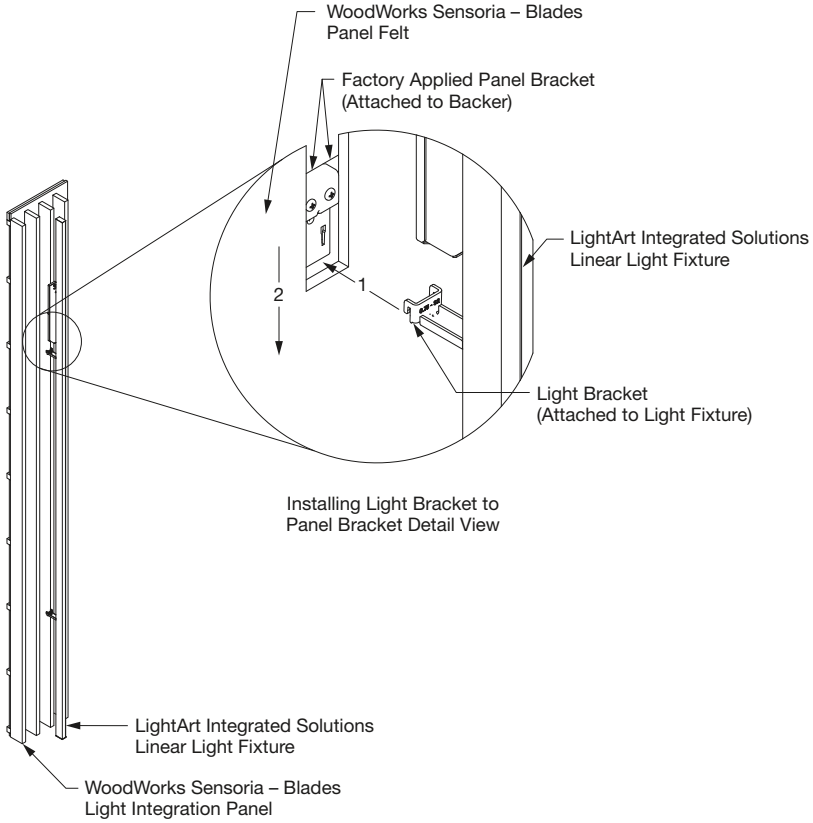
(Fig 6) *Horizontal Installation*



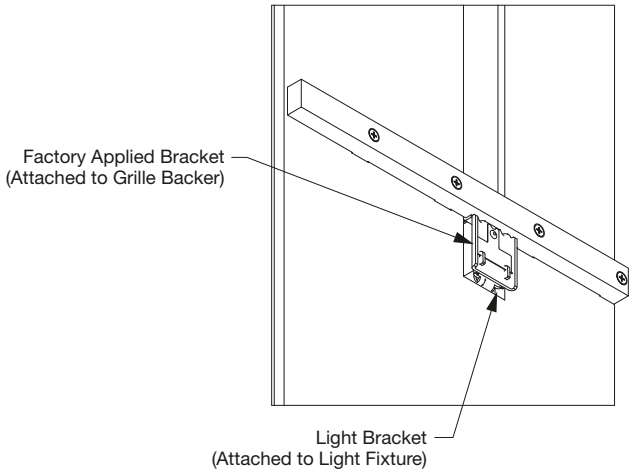
(Fig 7) *Vertical Installation*

For vertical wall installations, panel orientation is critical. WoodWorks® Sensoria™ – Blades integrated lighting panels must be installed with the male side of the panel facing right and the female side facing left. No other vertical orientation is permitted, as it will prevent proper bracket engagement. For horizontal wall installations, the male or female side of the panel may face upward or downward, as bracket performance is not affected by panel orientation.

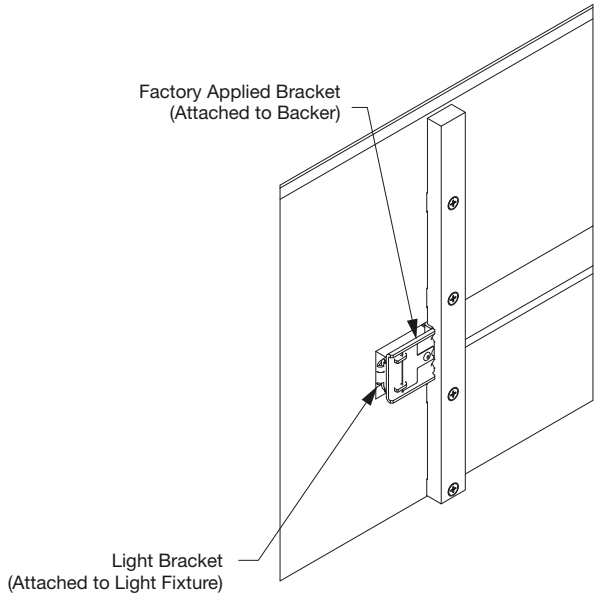
As each integrated lighting panel is installed, the ceiling/carpenter contractor shall pause panel installation and allow the electrical contractor to install and connect the LightArt® linear fixture to the factory-attached brackets ***(Figs 8-10)***.



(Fig 8)



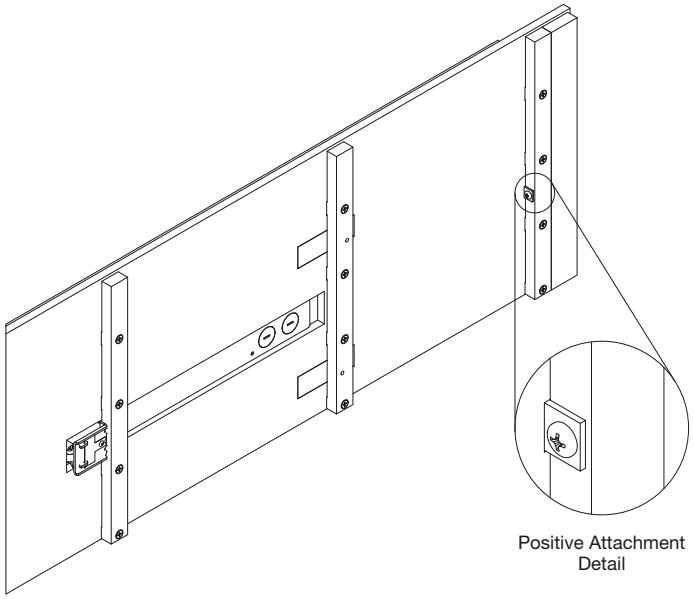
(Fig 9) *Vertical Installation*



(Fig 10) *Horizontal Installation*

Where required, the electrical contractor shall perform minor field modifications or routing adjustments necessary to conceal wiring behind the panel system. If furring or plywood backing creates an adequate cavity for wire management, no additional modifications may be required. Once the fixture is secured and all electrical connections are complete, the ceiling/carpenter contractor may proceed with installation of the remaining panels.

3.1.1 Electrical Contractor Scope: Fixture Positive Attachment
When a project requires the light fixture to be positively attached, the following method can be used to achieve this ***(Fig 11)***:



(Fig 11)

- Use and bend a 1/16" thick × 1/2" wide steel strip cut to approximately 1-1/2" to 2" long, or a 1/2" wide corner bracket with 1-1/2" legs (both by others)
- Drill 3/16" diameter holes as required for #8 screws
- Ensure the stop does not extend beyond the backer or panel. Trim as necessary.
- The electrical contractor must attach the fixture to the panel before the ceiling/carpenter contractor installs the WoodWorks® Sensoria™ – Blades panel on the wall
- Fasten the metal strip or bracket to the side of the backer that will prevent the fixture from lifting and disengaging from the panel bracket
- Attach to backers using a #8 wood screw

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.

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