

WOODWORKS® Linear Solid Wood Panels

Downlight Integration Installation Instructions

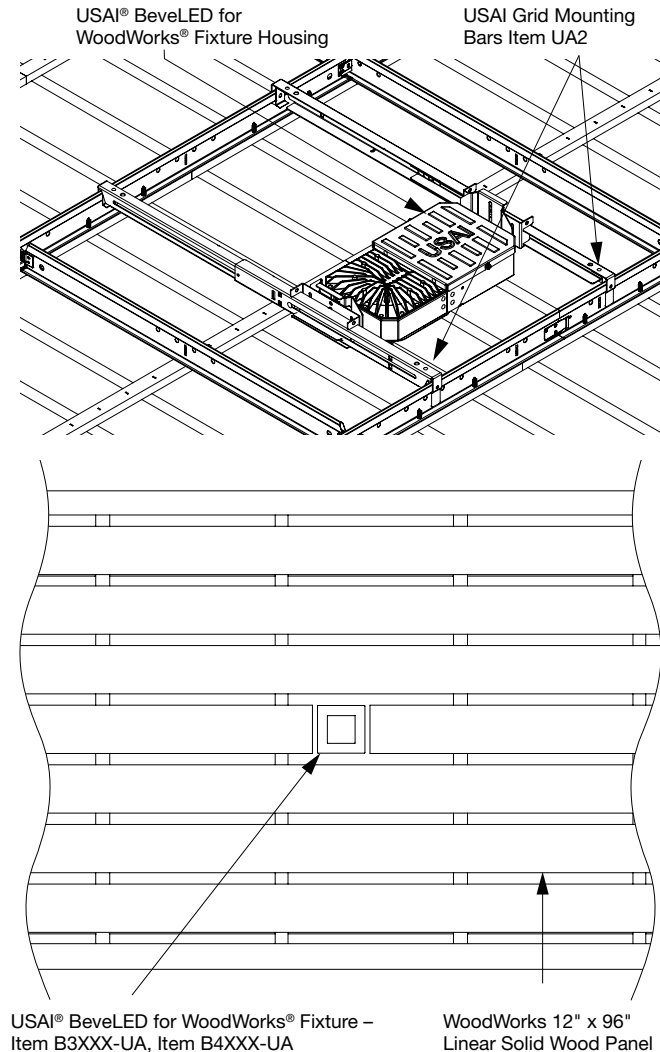
This installation guide is a supplement to the standard WOODWORKS® Linear Solid Wood Panels installation instructions.

1. SOLUTION OVERVIEW

The following guidelines enable installation of various USAI® light fixtures with Armstrong WOODWORKS Linear Solid Wood panels – eliminating the need for modification of the grid system and independent suspension of the light fixture. **(Fig 1)**

The installation of this ceiling and the integrated lighting solution will require coordination between the ceiling contractor and the electrical contractor. WOODWORKS Linear Solid Wood panels with the downlight integration is a progressive installation, meaning the lights and the ceiling panels must be installed at the same time. The general contractor should work with the electrical contractor and ceiling contractor to clearly assign responsibilities.

These instructions represent the WOODWORKS Linear Solid Wood panels listed in the chart at the end of the instructions. Other WOODWORKS Linear Solid Wood Panels items are not included as part of this standard integration solution.



(Fig 1)

2. DESIGN AND INSTALLATION CONSIDERATIONS

2.1 Reveal Guidelines

Reveal between the light and slats will coordinate with the reveal from slat to slat. There should be a minimum reveal of at least 1/4" between the light fixture and a cut slat.

2.2 Treating Field-Modified Panel Edges

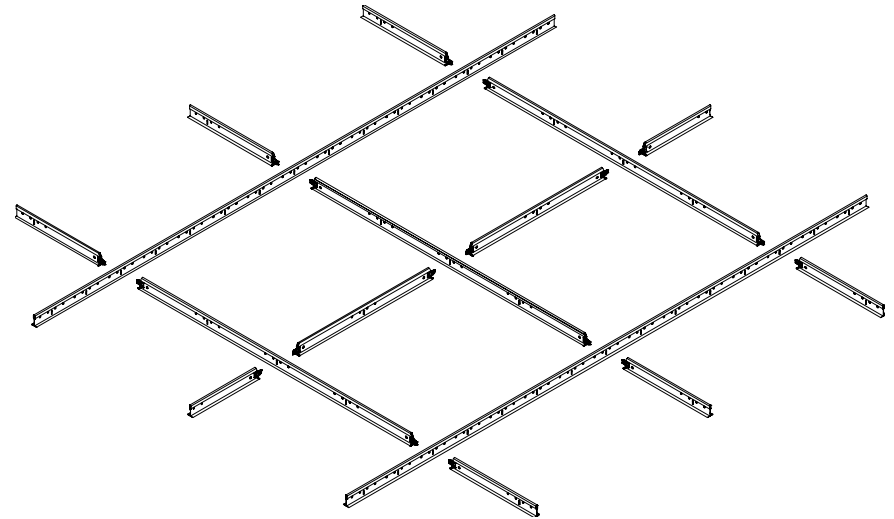
See Section 3.3 for recommendations on how to treat the exposed edges of a field-modified panel.

2.3 Suspension System

This system requires a 2' x 2' grid layout for all installations with light integration, regardless of seismic design category. Main beams installed at 48" O.C., with 4' cross tees perpendicular to the main beams at 2' O.C., and 2' cross tees spanning the midpoints of the 4' cross tees. All grid members that support light fixtures must be full height (1-11/16"). (Fig 2)

2.4 Acoustical Solution

The BioAcoustic Infill panel (item BP6657) can be installed to provide an acoustical solution. See Section 3.4 for more information.



(Fig 2)

3. PANEL MODIFICATIONS

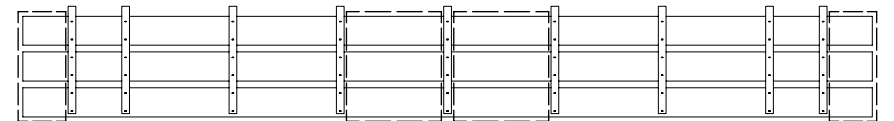
3.1 Modification Preparations

3.1.1 The following tools can be used to make cuts in the field:

- Jigsaw: Be sure to use a fine finish blade when using the jigsaw. We recommend using the Bosch T308BP jigsaw blade, or equivalent.

3.1.2 Make sure the panel is supported on a clean surface when making cuts to minimize the risk of blemishes.

3.1.3 Place the WOODWORKS® Linear Solid Wood panel on a set of stand-offs. Determine which slat(s) are to be cut based on the ceiling and lighting layout. Reference the panel modification drawings for the acceptable cut areas on each product. (Fig 3)

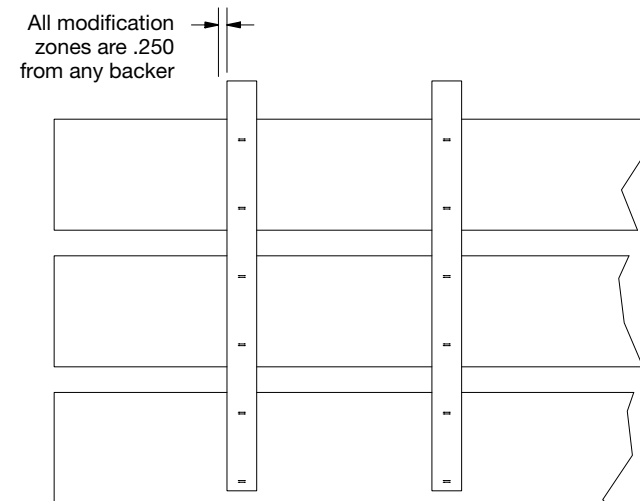


(Fig 3)

3.2 Standard Panel Modification – Cutting Panel Slats

3.2.1 Modification Rules for USAI® Fixtures:

- Reference the panel modification drawings for the acceptable cut areas on each product.
- No more than two areas of modification are allowed in the length of a panel.
- Those two areas of modification must have two grid-attached hanging points between them.
- The allowable modification zones begin 1/4" from any backer.
(Fig 4)
- No unsupported slat portions can remain when removing slat material from the allowable modification zones on the ends of the panel.
- The reveal from the end of the modified slats to the light fixture can be no closer than 1/4".



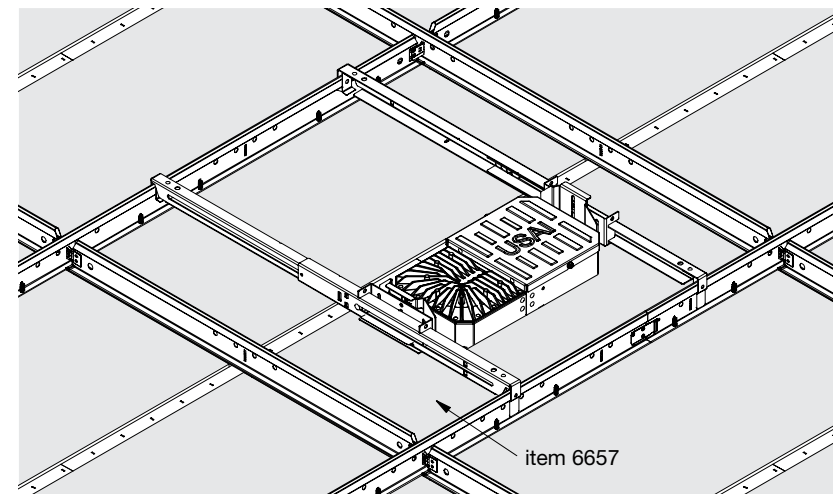
(Fig 4)

3.3 Treating Exposed Edges (Optional)

Field-modified panel edges that are exposed to view can be treated to hide the cut edge by applying the Krylon Flat COLORmaxx Black Enamel Interior/Exterior Paint or Minwax Gel Stain Satin Black Oil-based Interior Stain. Follow the manufacturer's guidelines when applying the paint or gel stain. Make sure to remove any paint/gel stain that made its way to the finished face of the panel by quickly wiping it with a rag.

3.4 Acoustical Infill Panel

The BioAcoustic Infill panel (item BP6657) can be installed to provide an acoustical solution. The infill panel will need to be cut to accept the light fixture. A standard utility knife can be used to cut the infill panels. Reference section 6.18 in the Acoustical Infill Panels Installation Guide for more information on how to install the infill panels. *(Fig 5)*



(Fig 5)

4. INSTALLATION OF THE ASSEMBLY

Install the WOODWORKS® Linear Solid Wood panel that the light will integrate into per the standard installation instructions, following the screw attachment method. *(Fig 6)*

The compatible light fixture and driver should be installed by a qualified electrician in accordance with the lighting manufacturer's instructions. *(Fig 7)*

Once the modified panel and light have been installed, resume installation of the full-size WOODWORKS Linear Solid Wood panels following the standard installation instructions. *(Fig 8)*

5. LIGHT FIXTURES

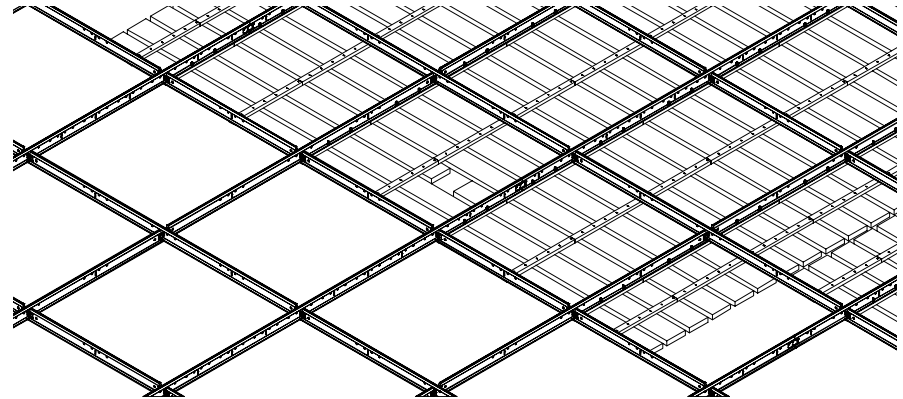
Compatible with USAI® BeveLED 2.2 for WOODWORKS and BeveLED Mini for WOODWORKS light fixtures. Contact the light manufacturer if the visual of the light fixture needs to be concealed if the acoustical infill panels (referenced in section 3.4) are not used. For detailed lighting information, contact your local USAI representative.

6. SEISMIC

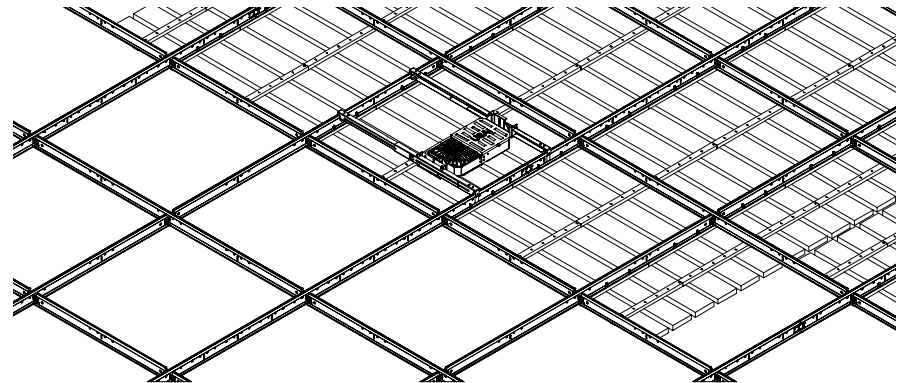
This system has been engineered for application in seismic areas based on the instructions listed in this document and has been successfully tested in applications simulating seismic design categories D, E, and F.

Refer to the lighting manufacturer for the specific instructions on how to install the light fixture in seismic areas.

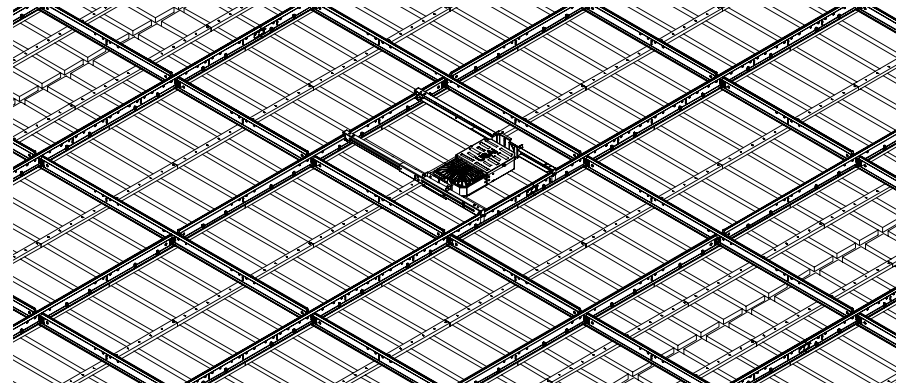
Certain jurisdictions may have additional requirements for lighting systems. Consult your local authority for specific requirements.



(Fig 6)



(Fig 7)



(Fig 8)

WOODWORKS® Panel Item No.	Description	Coordinating USAI® Fixture Family	Coordinating USAI Fixture Part Numbers	USAI Grid Mounting Bars Item No.	Panel Field Modification Required
WOODWORKS® Linear Solid Wood Panels					
8177	5-1/4" Planks	BeveLED 2.2 for WOODWORKS	B4XXX-UA	UA2	1 plank cut
8176	3-1/4" Planks	BeveLED Mini® for WOODWORKS	B3XXX-UA	UA2	1 plank cut

NOTE: Refer to lighting partner cut sheets for light location considerations

MORE INFORMATION

For more information, or for an Armstrong Ceilings representative, call 1 877 276 7876.

For complete technical information, detail drawings, CAD design assistance, installation information, and many other technical services, call TechLine customer support at 1 877 276 7876 or FAX 1 800 572 TECH.

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