

Linear Wood Plank Ceiling Systems

Installation Manual

Designed and Engineered
by: **Decoustics**

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sales@decoustics.com

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SAINT-GOBAIN

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Linear Wood - Continuous Linear Wood with Screw-In Holding Clip

1. Prior to installation please check and verify that all required components have been received. Using the attached drawings identify all components received.
2. Check and verify the quantities of components received against the quantities required for the project.

Note: All T bar grids utilized for the mounting of Linear Wood Products must be Installed to support the loading applied to the structure by the Linear wood components. All main "T's" will be on 2'-0" centers with hanger wires located at no more than 4'-0" spacings. All cross "T's" will be located on 2'-0" centers.



**Screw-in Type
Holding Clip**



**Self Tapping Screw
#8 x 1"
(To be Supplied by Others)**



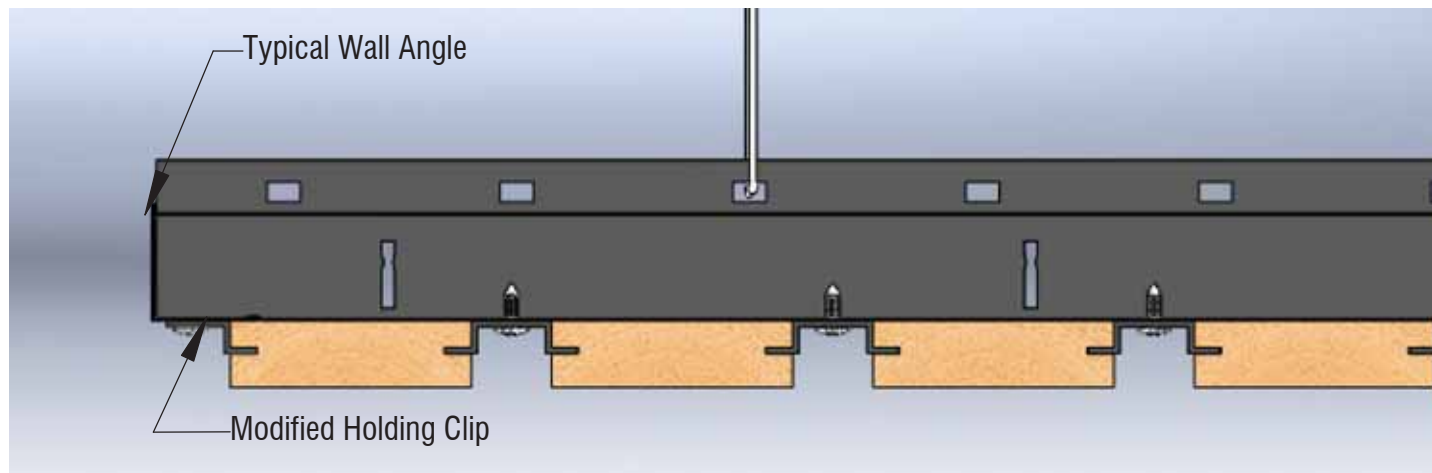
**Self Tapping Screw
#8 x 3/8"
(To be Supplied by Others)**

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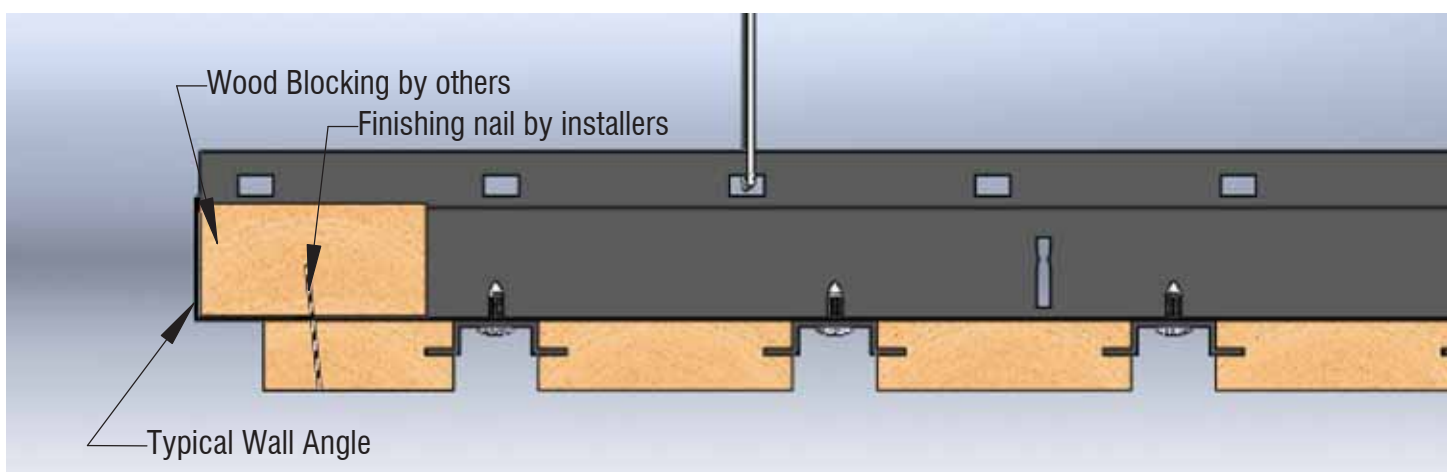
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Linear Wood -Continuous Linear Wood with Screw-In Holding Clip

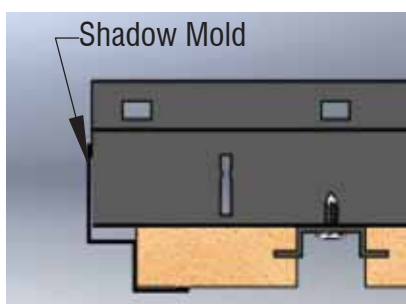
Typical Start and Finish Ceiling Details for Progressive Installed Plank



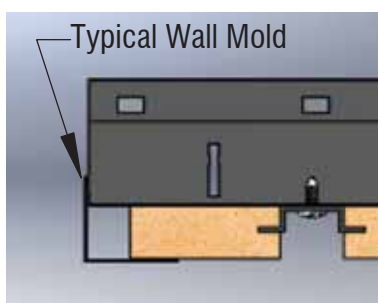
3. Typical Start / Finish detail utilizing wall angle and holding clip with one support tab removed.



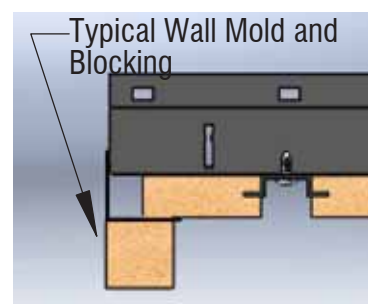
4. Typical Start / Finish detail utilizing wall angle, wood blocking and finishing nail inserted by the installer.



Metal Trim Utilizing
Continuous Shadow Mold
and Wall Angle



Metal Trim Utilizing
Continuous Wall Angle

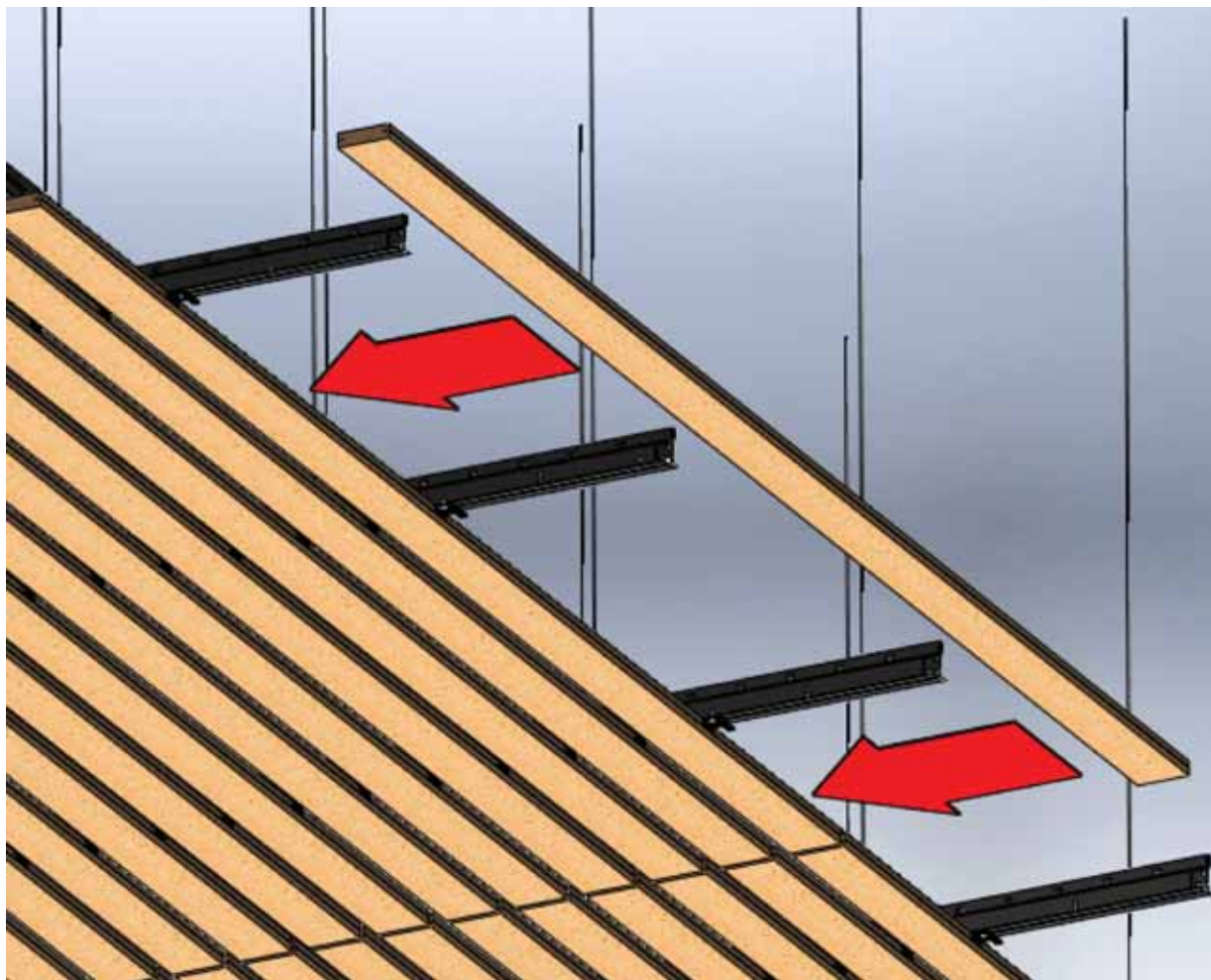


Wood Trim Utilizing
Continuous Wall Angle

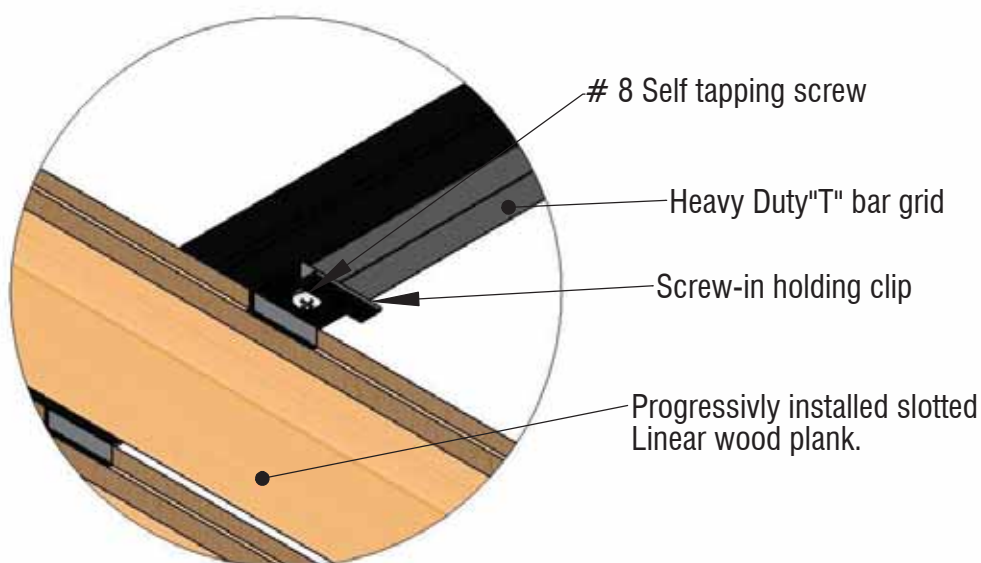
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5. The ceiling plank is aligned with tabs on screw-in holding clips and slid into position on "T" bar support grid. Fasten plank to heavy duty "T" bar with screw-in holding clips.



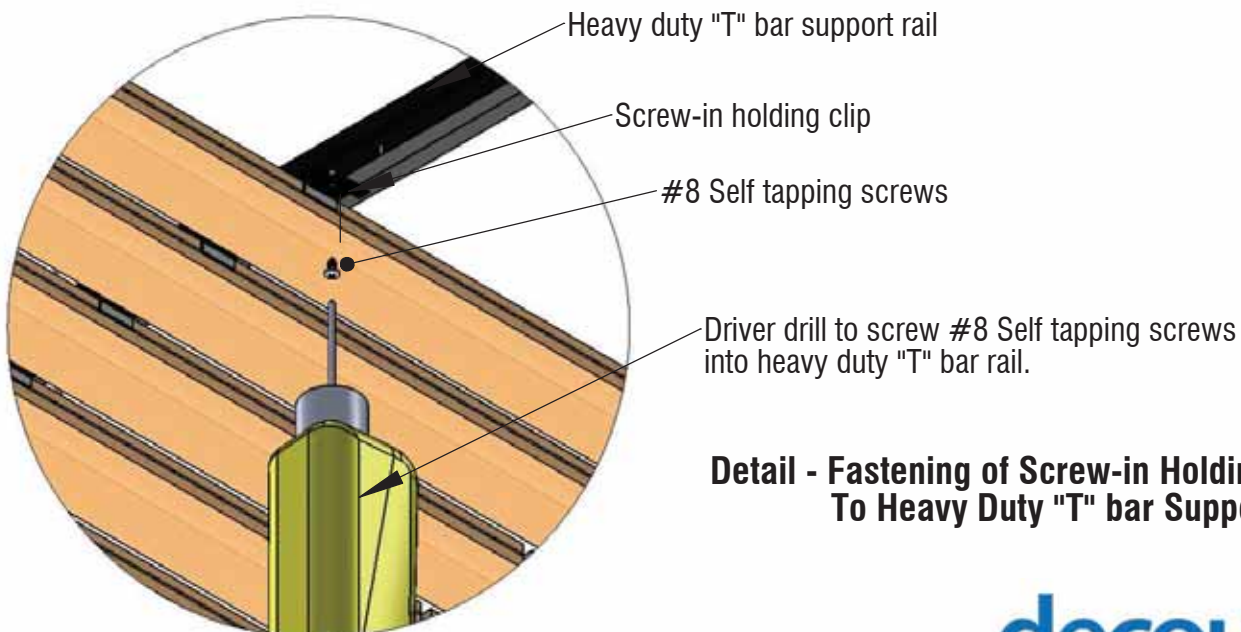
6. Detail of the linear wood plank secured to heavy duty "T" bar support grid with screw-in holding clips. Holding clip is attached to "T" bar grid with #8 Self tapping screws.



Detail - Screw-in Holding clip Attached to Heavy Duty "T" bar Grid

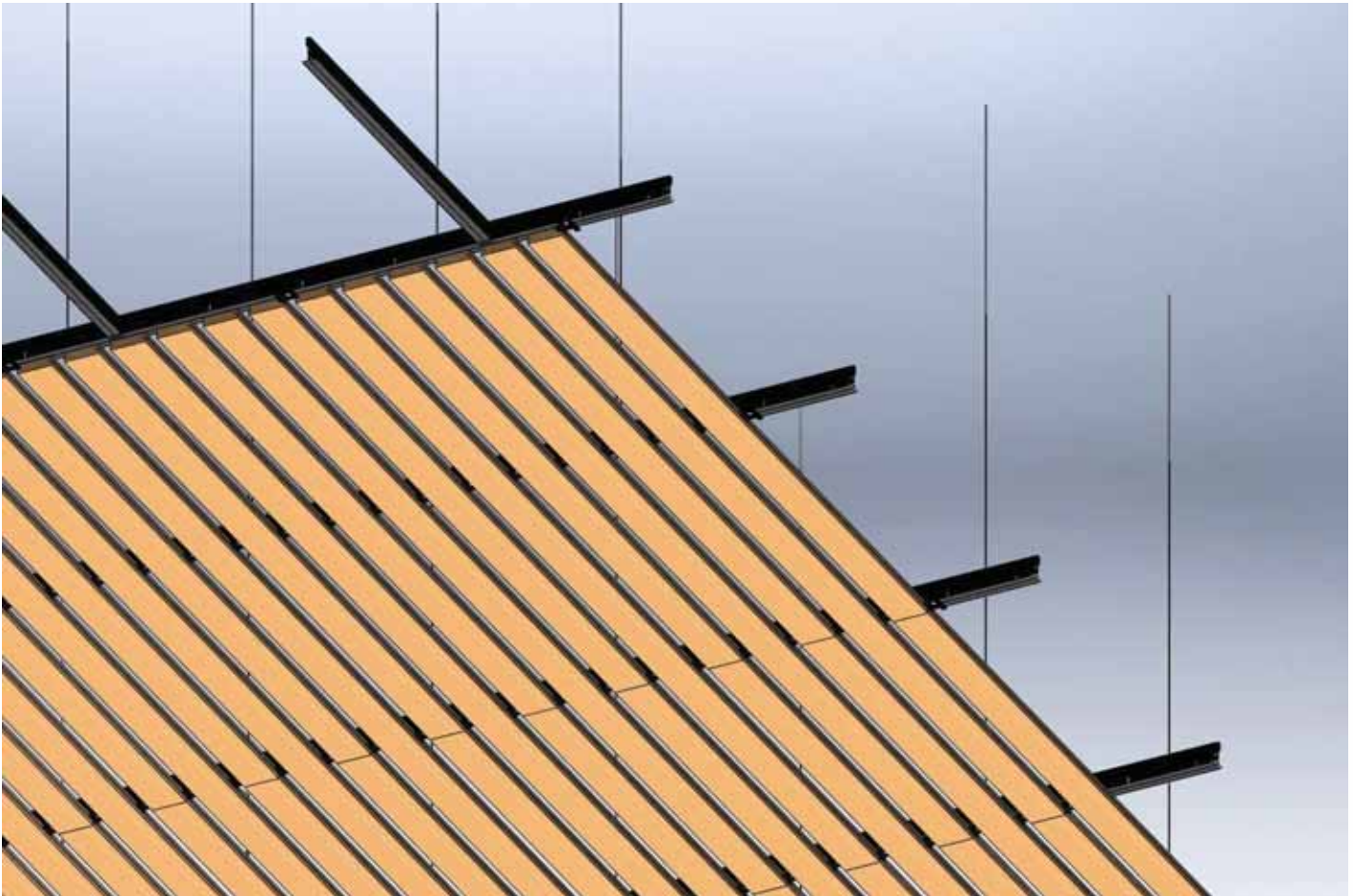


7. Using a driver drill, fasten the screw-in holding clips to the heavy duty "T" bar grid rail with #8 Self tapping screws. The holding clips support the linear wood planks as well as maintaining a consistent 3/4" spacing between ceiling planks.

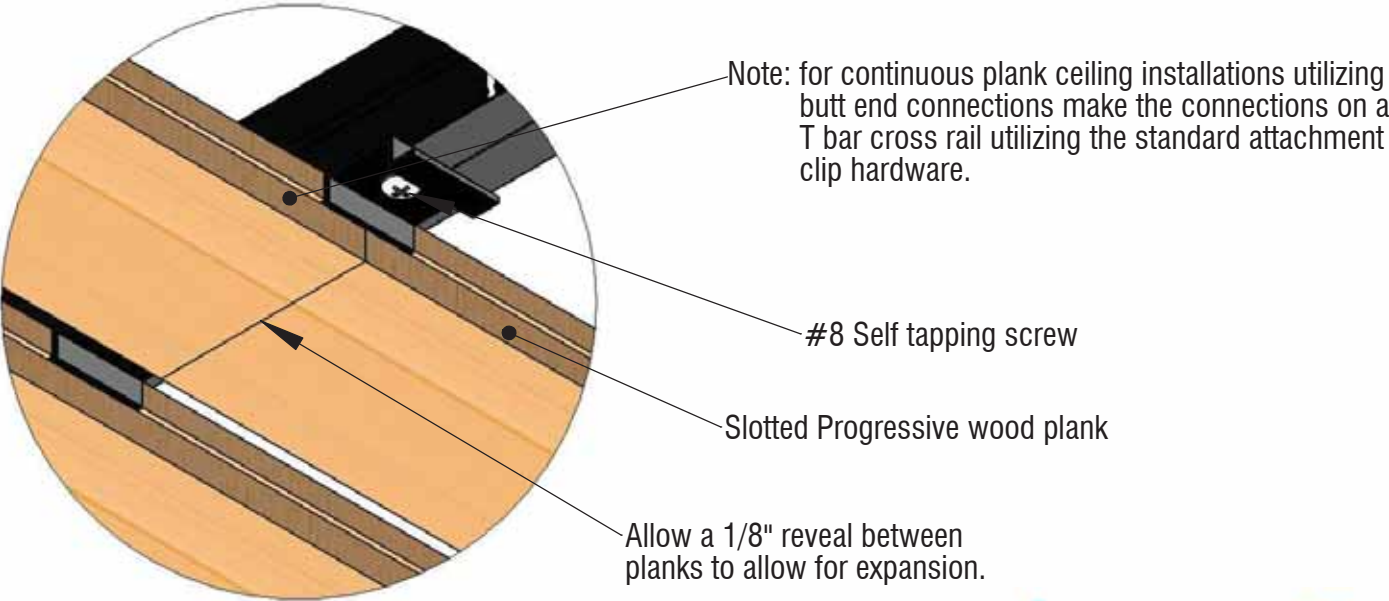


Detail - Fastening of Screw-in Holding Clip To Heavy Duty "T" bar Support Rail

Note: Ceiling shown features a 1/8" reveal between Plank groupings. For continuous plank ceiling installations utilizing butt end connections use Plank Alignment Assembly hardware.



8. Continuous linear wood installations require the use of alignment hardware to keep the end of planks consistent with the installation. Hardware is screwed into the back of the plank with #8 self tapping screws.



Detail-Plank Alignment Hardware Attached to back of Linear Plank for use with continuous Plank Installations.

Cutting of Linear Wood Product Planks and Blades

When Cutting Linear Plank or Linear Grille Products it is important to use equipment that will not tear or chip the wood veneer components. Traditional woodworking tools are suitable for cutting Linear Wood and Grille Ceilings. Decoustics recommends using large diameter chop saws or radial saws having a carbide tipped blade with a sharp, thin -kerf, 80 tooth - at 10" (254mm) diameter - and alternating 40 degree bevel. Cut products with face up to avoid scratching. Make certain that the cutting tool has adequate depth of cut to pass through the products height.

Note: A traditional table saw would require the plank to be cut much slower to avoid tear-out or chipping. If cutouts are required for round fixtures, Decoustics recommends a router and template method using a quality spiral-down carbide flute cutting bit.

When cutting metal components it is recommended to utilize the appropriate tool such as a metal cut-off saw, hacksaw, or hand grinder with cut-off blade.

Finishing of Cut Ends - Linear Wood Product Planks and Blades

Cutting through Linear Plank or Linear Blade rails will expose the mdf core material. It is recommended to finish the cut ends and in this way to seal the core material. There are several recommended ways of finishing the cut end:

- 1. Spray or brush coat the exposed ends of the Linear wood product with a high quality clear washable low sheen lacquer coating (recommended). Such products are available at most hardware or building supply outlets.**
- 2. Pre-finished veneer material with a self adhesive backing is available upon request at additional cost. The pre finished veneer can be cut to the desired size and adhered to the cut ends utilizing the self adhesive backing. Once attached to the Linear wood product the excess material can be trimmed with a knife or sanded flush to the exterior profile of the cut end.**

Note: We recommend that any installations of Linear wood products be done under the supervision of a qualified and experienced individual with a good thorough knowledge of wood working and cabinet building techniques.

ENVIRONMENT: Linear wood panels must be stored, installed, and maintained only in a stable ambient environment (relative humidity of minimum 35% - maximum 55%, temperature to be maintained between 20 -27°C (68-80°F)) Solo panels must be allowed to stabilize on site for 72 hours prior to installation

Special Services and Client Support

Linear wood products are purchased on the understanding that the materials supplied to our clients are a commodity type product. Decoustics can provide basic customer support related to the installation of Linear wood products.

For installations involving the customization of Linear wood products Decoustics can provide design and fabrication services at additional cost.

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Linear Wood - Continuous Linear Wood with Screw-In Holding Clip and Felt Fibre Infill Strip

1. Prior to installation please check and verify that all required components have been received. Using the attached drawings identify all components received.
2. Check and verify the quantities of components received against the quantities required for the project.

Note: All T bar grids utilized for the mounting of Linear Wood Products must be Installed to support the loading applied to the structure by the Linear wood components. All main "T's" will be on 2'-0" centers with hanger wires located at no more than 4'-0" spacings. All cross "T's" will be located on 2'-0" centers.



**Screw-in Type
Holding Clip**



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#8 x 1"
(To be Supplied by Others)**



**Self Tapping Screw
#8 x 3/8"
(To be Supplied by Others)**



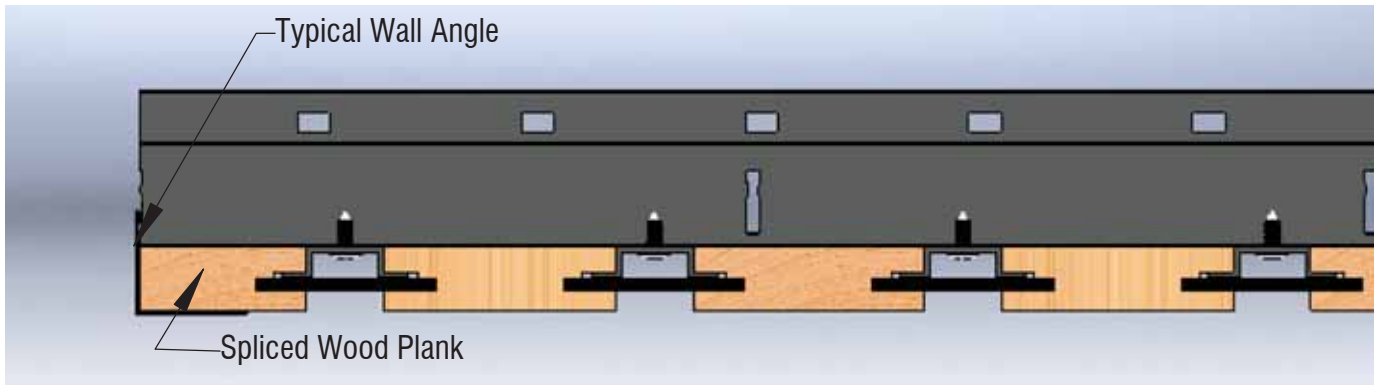
**Felt Fibre Infill Strip
1 1/2" Wide x 1/8" Thick
96" Lengths**

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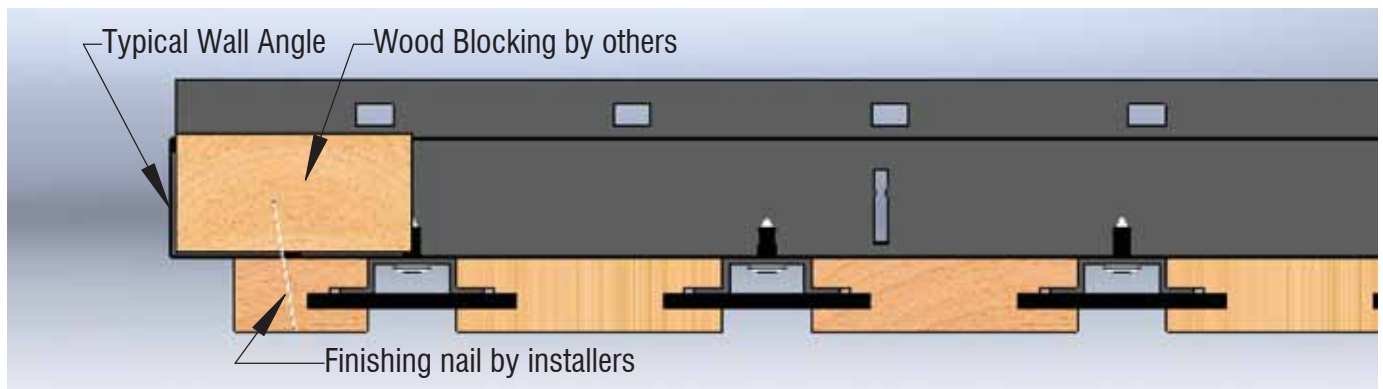
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Linear Wood - Continuous Linear Wood with Screw-In Holding Clip and Felt Fibre Infill

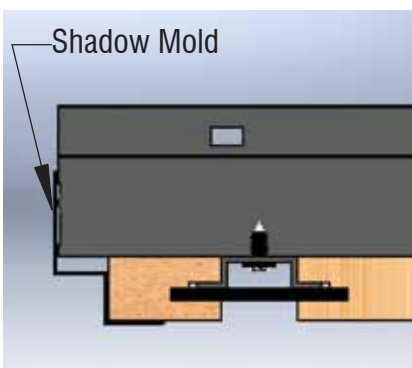
Typical Standard Finish Ceiling Details



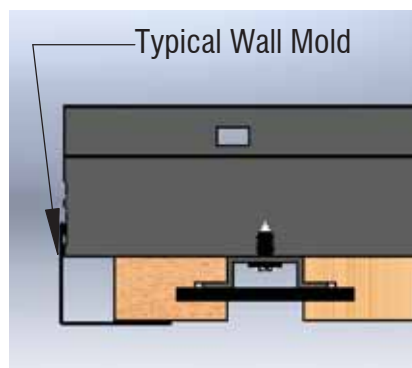
3. Typical Start / Finish detail utilizing wall angle and spliced wood plank (as shown).



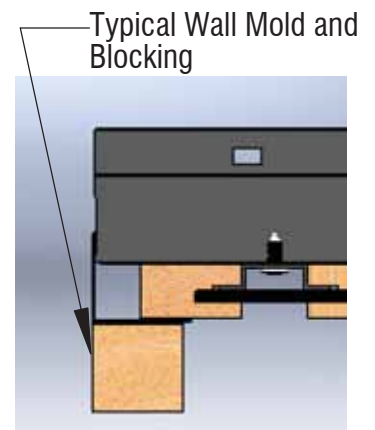
4. Typical Start / Finish detail utilizing wall angle, wood blocking and finishing nail inserted by the installer.



Metal Trim Utilizing Continuous Shadow Mold and Wall Angle



Metal Trim Utilizing Continuous Wall Angle

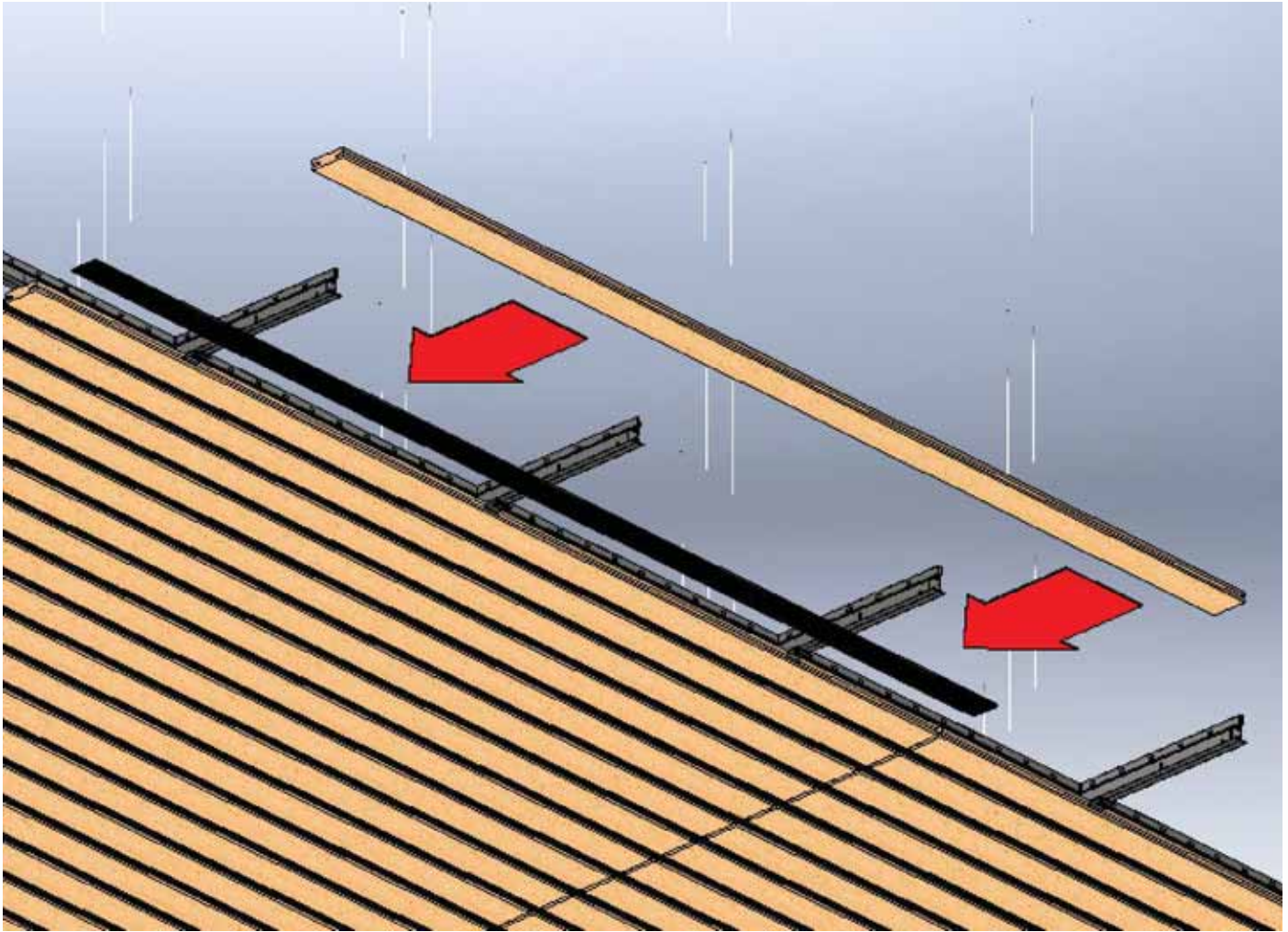


Wood Trim Utilizing Continuous Wall Angle

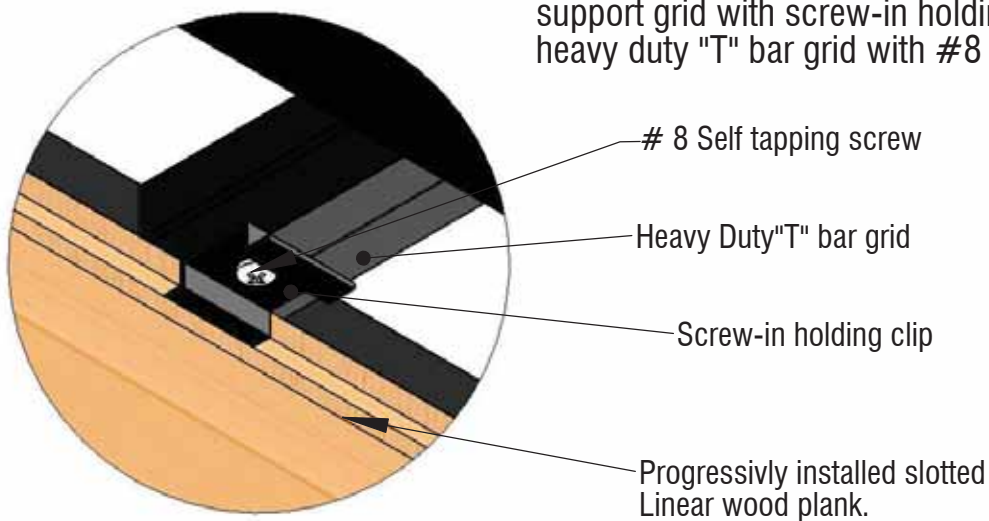
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5. Linear wood ceiling plank and felt fibre infill strip are aligned with tabs on screw-in holding clips and progressively slid into position on "T" bar support grid. The plank is then fastened to heavy duty "T" bar with screw-in holding clips. Note: The felt fibre infill strip finishes off the ceiling reveal.



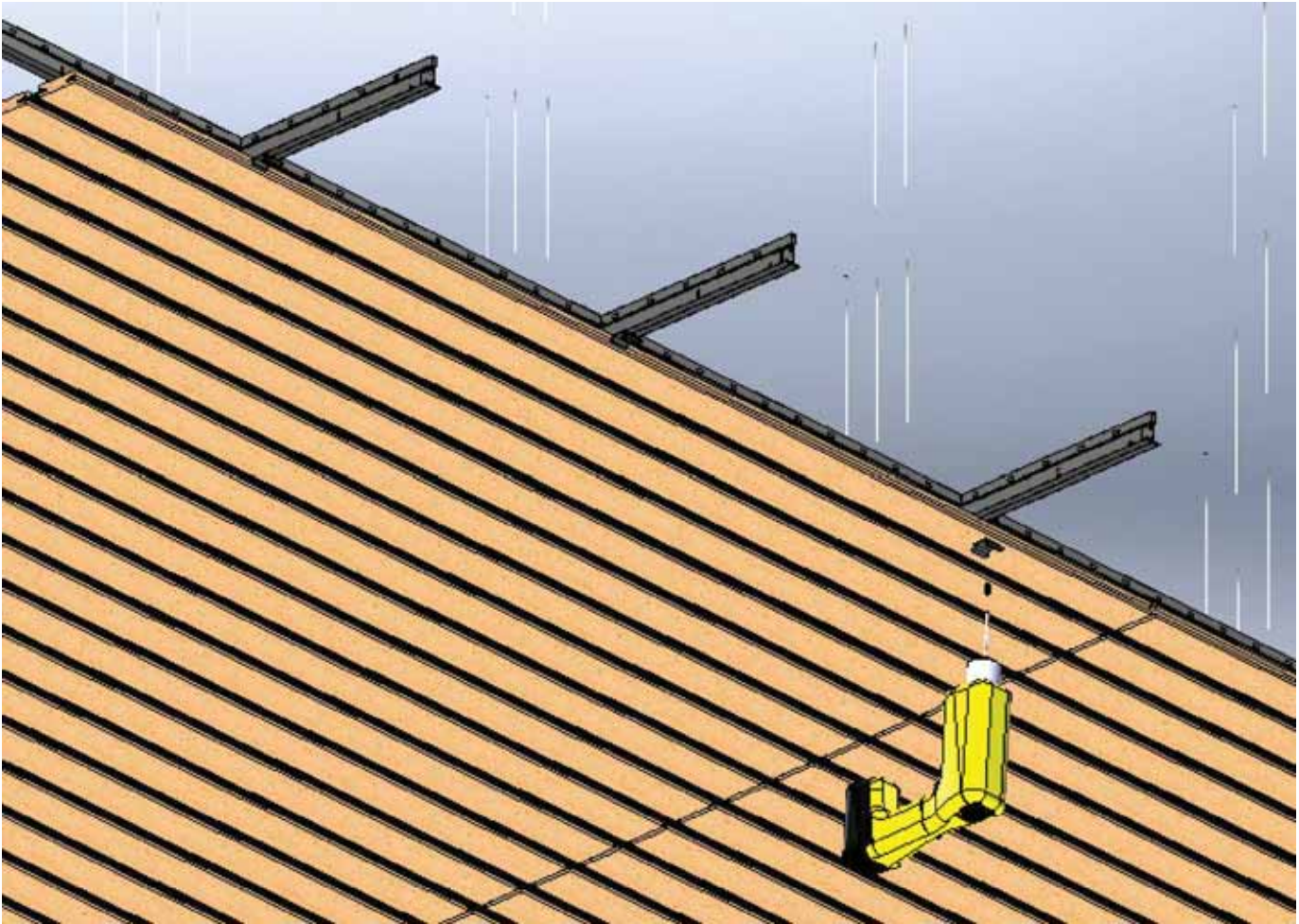
6. Detail of linear wood plank secured to heavy duty "T" bar support grid with screw-in holding clips. Clip is attached to heavy duty "T" bar grid with #8 Self tapping screws.



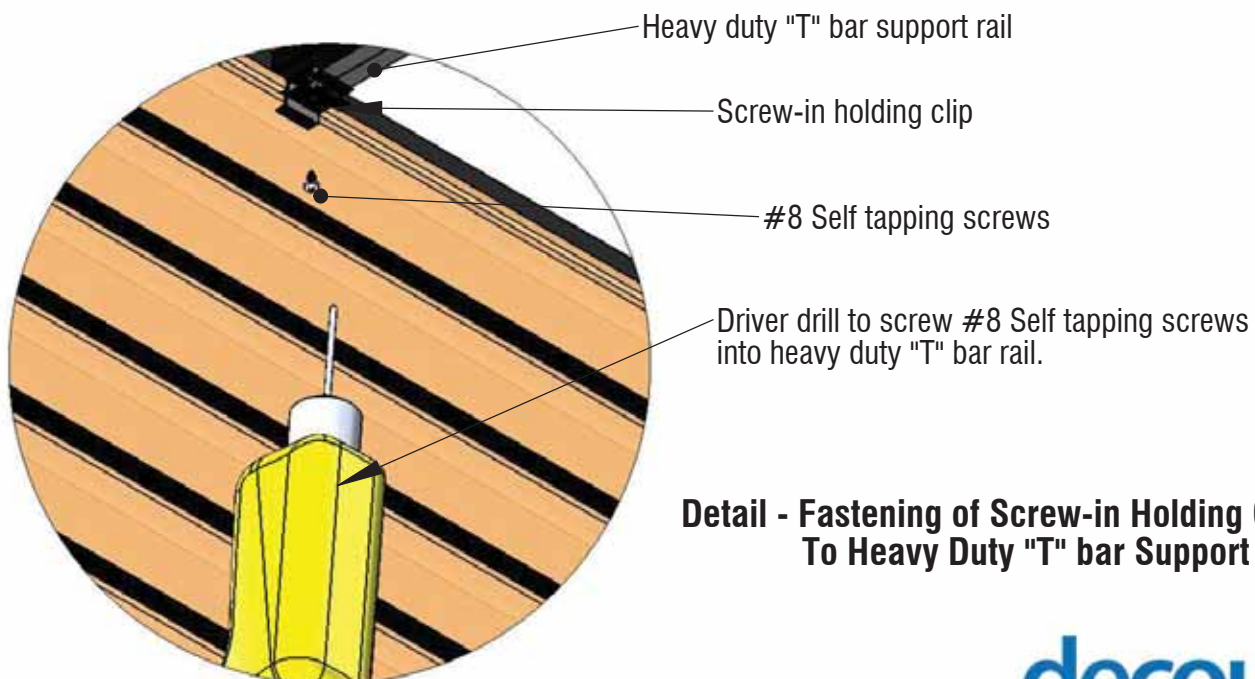
Detail - Screw-in Holding clip Attached to Heavy Duty "T" bar Grid c/w Felt Fibre Infill

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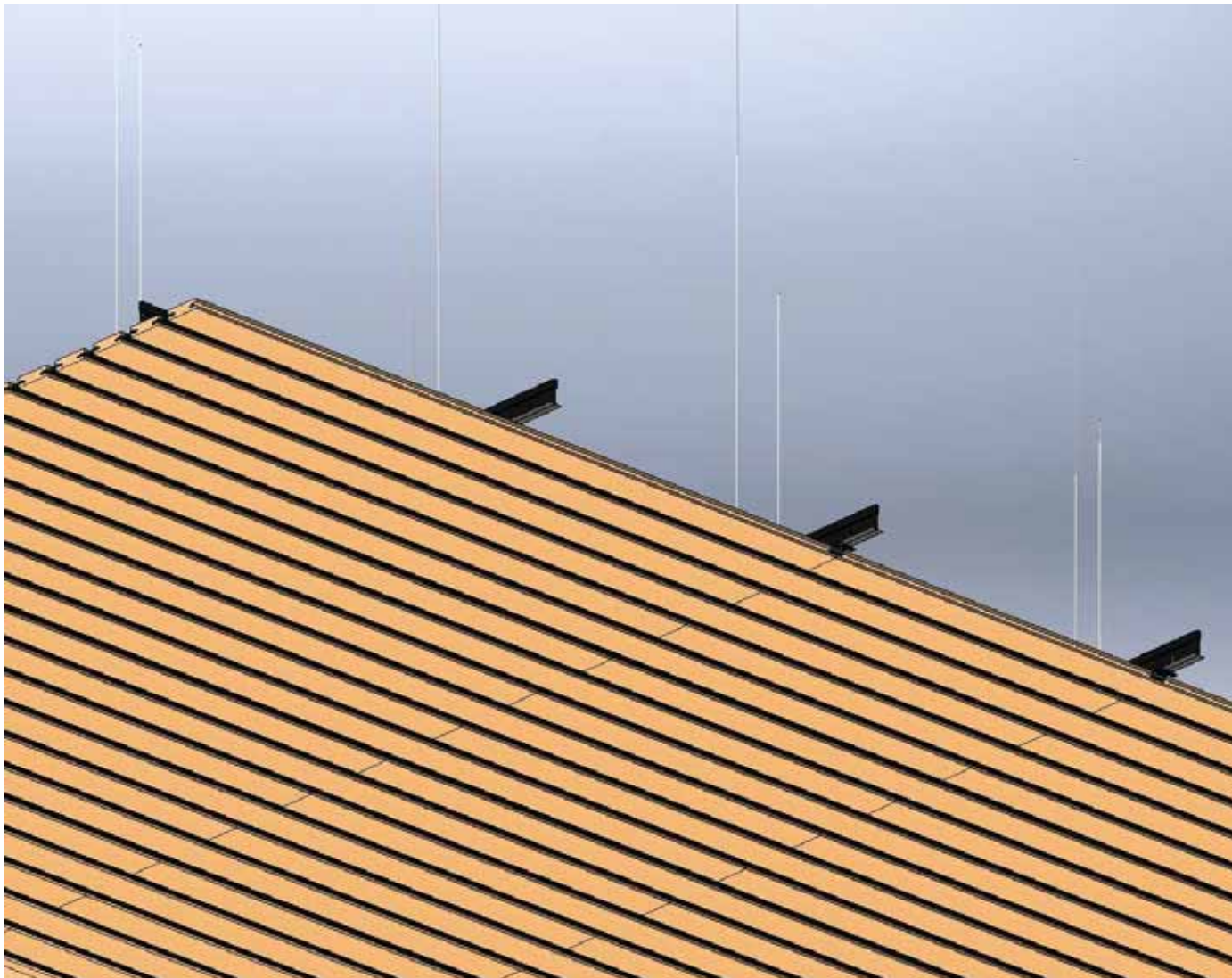
7. Using a driver drill, fasten the screw-in holding clips to the heavy duty "T" bar grid rail with #8 Self tapping screws. The holding clips support the linear wood planks as well as maintaining a consistent 3/4" spacing between ceiling planks.



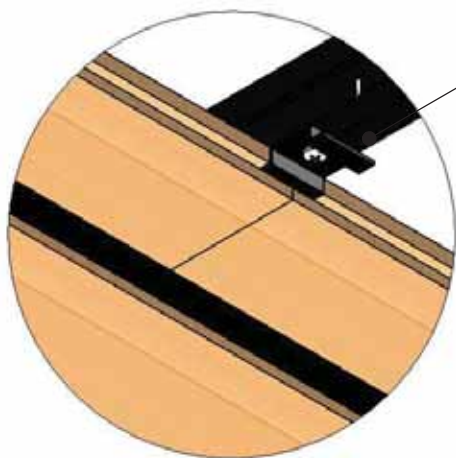
**Detail - Fastening of Screw-in Holding Clip
To Heavy Duty "T" bar Support Rail**

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8. Continuous linear ceiling installations require the use of alignment hardware to keep the end of planks consistent with the installation. Hardware is screwed into the back of the plank with #8 Self tapping screws.



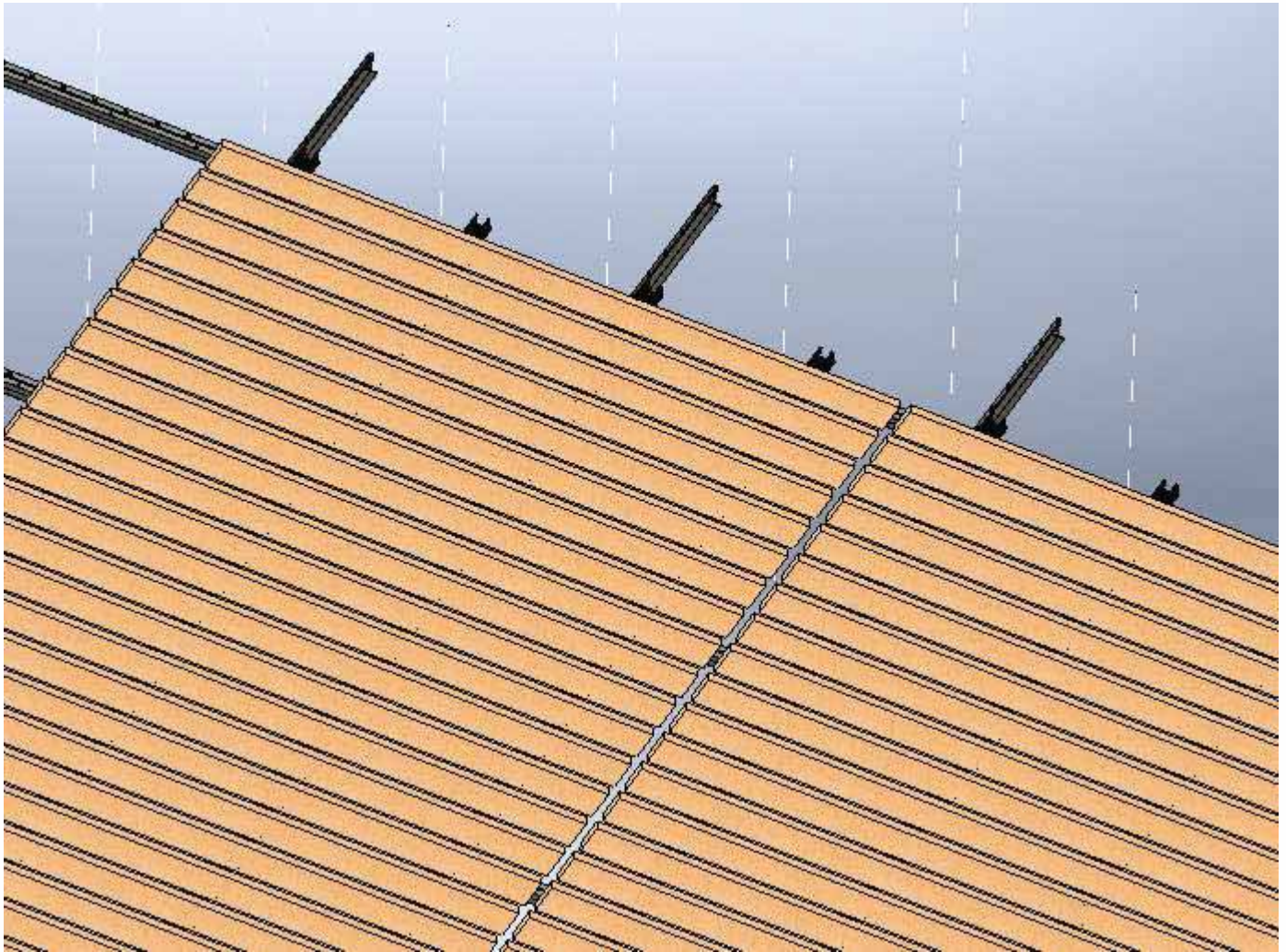
Note: for continuous linear ceiling installations utilizing butt end connections use screw in type assembly clip hardware.

Detail - Butt End Connections, always make connections on a T bar rail and utilize two screw in type clips to secure the planks to the T bar Suspension System.

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Linear Wood - Panelized Linear Wood



Panelized Linear Wood ceiling installed on heavy duty "T" bar grid complete with 3/4" (19mm) reveal between plank sections.

1. Prior to installation please check and verify that all required components have been received. using the attached drawings identify all components received.
2. Check and verify the quantities of components received against the quantities required for the project.

Note: All T bar grids utilized for the mounting of Linear Wood Products must be Installed to support the loading applied to the structure by the Linear wood components. All main "T's" will be on 2'-0" centers with hanger wires located at no more than 4'-0" spacings. All cross "T's" will be located on 2'-0" centers.

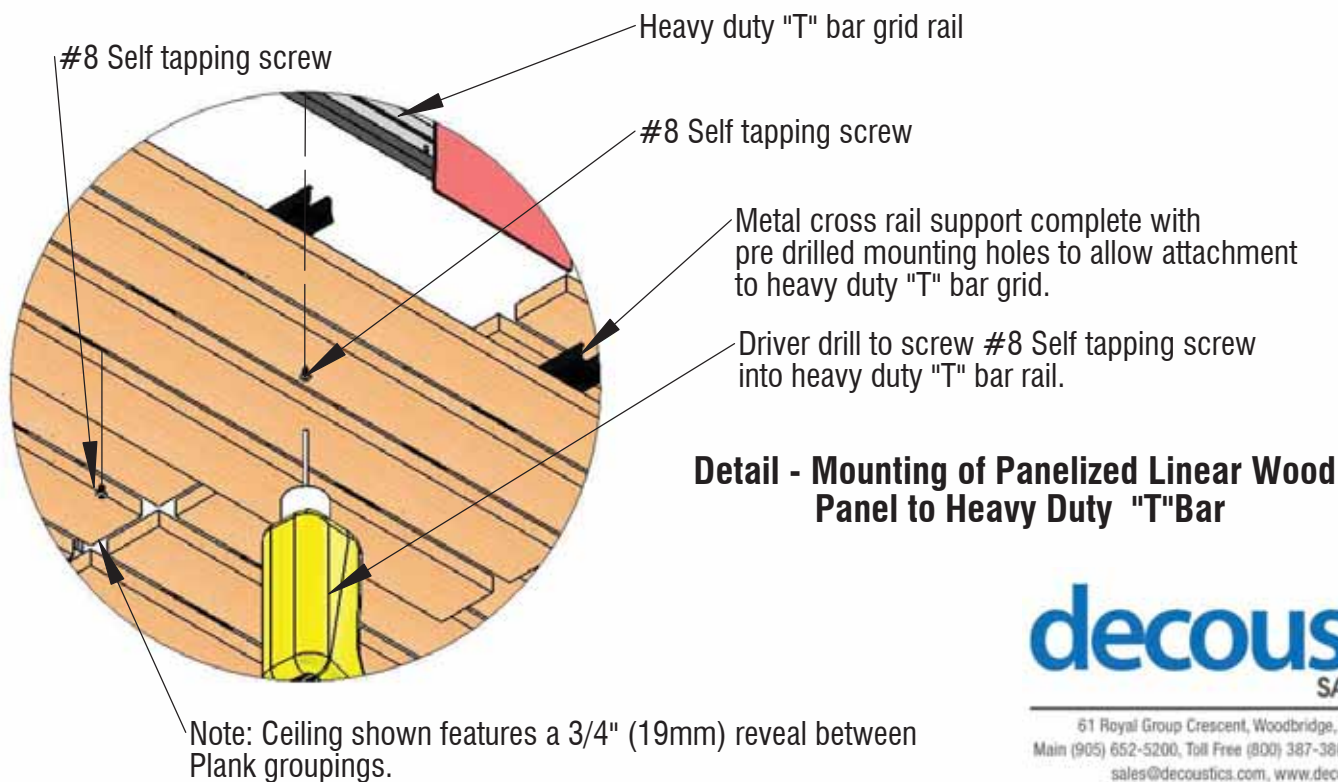
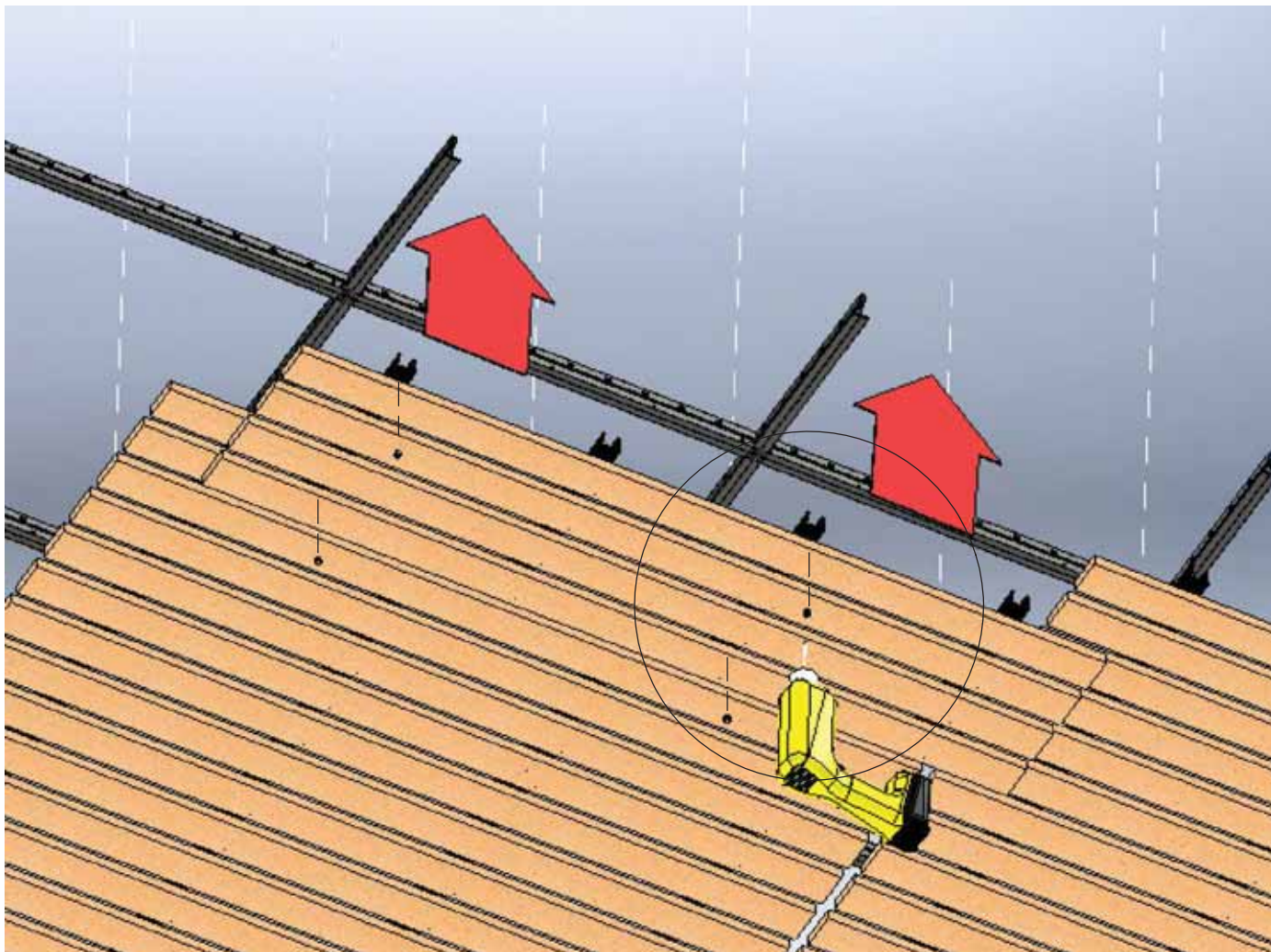
To Install Linear Wood Cross Piece Grille panels it is recommended to use black coated Sheet Metal Screws #8 x 1 1/2 " (to be supplied by others)



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6. Panelized linear wood panels are positioned on the "T" bar support grid. The panelized assembly is then fastened to heavy duty "T" bar with #8 Self tapping screws through the pre drilled holes in the cross rail.

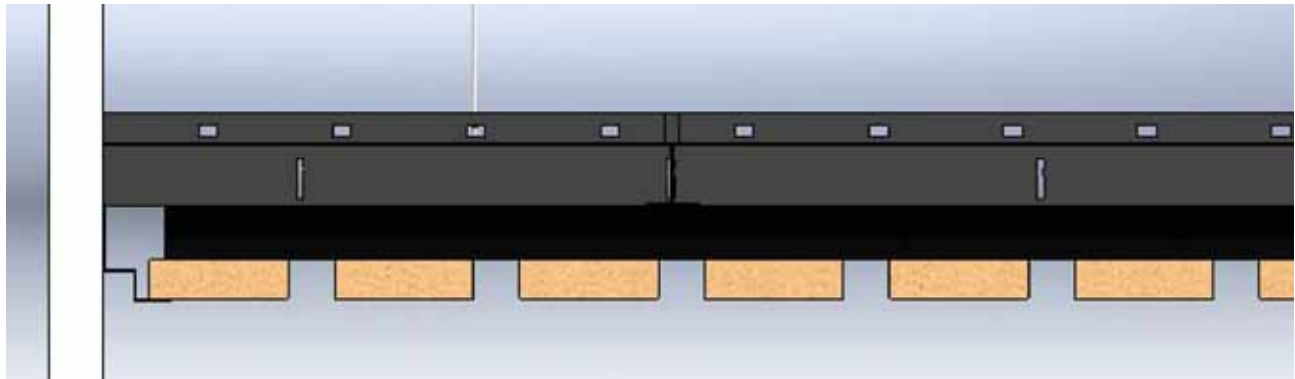


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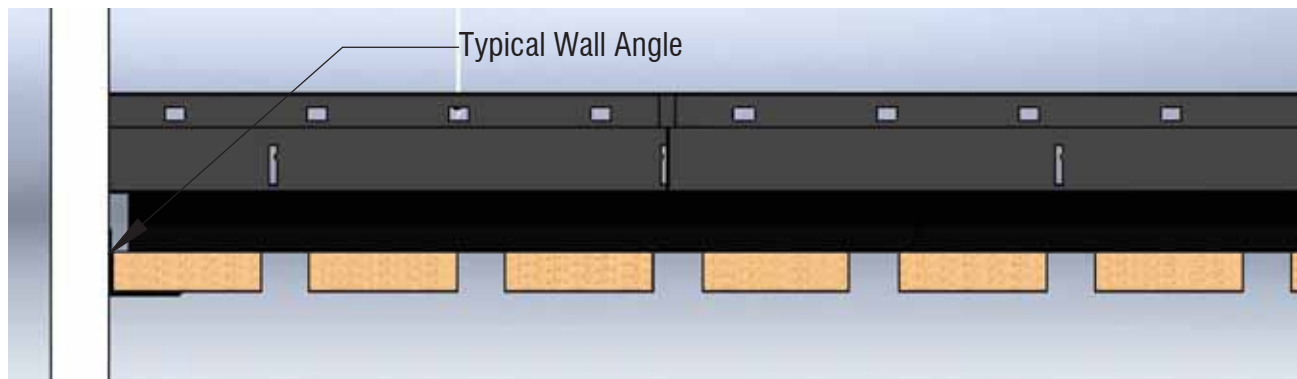
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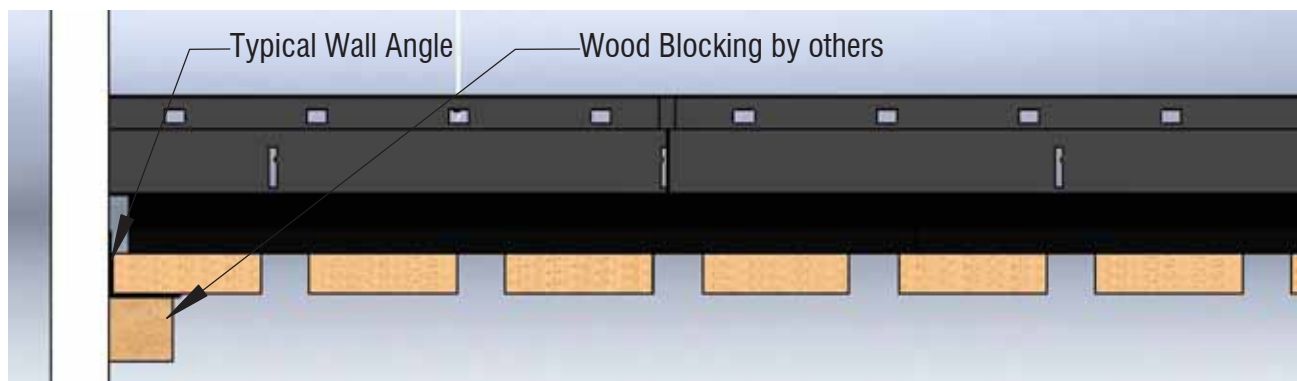
Typical Start and Finish Ceiling Installation Details



3. Typical Start / Finish detail utilizing shadow mold(as shown).



4. Typical Start / Finish detail utilizing wall angle (as shown).



5. Typical Start / Finish detail utilizing wall angle and wood blocking.

Cutting of Linear Wood Product Planks and Blades

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Note: A traditional table saw would require the plank to be cut much slower to avoid tear-out or chipping. If cutouts are required for round fixtures, Decoustics recommends a router and template method using a quality spiral-down carbide flute cutting bit.

When cutting metal components it is recommended to utilize the appropriate tool such as a metal cut-off saw, hacksaw, or hand grinder with cut-off blade.

Finishing of Cut Ends - Linear Wood Product Planks and Blades

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- 1. Spray or brush coat the exposed ends of the Linear wood product with a high quality clear washable low sheen lacquer coating (recommended). Such products are available at most hardware or building supply outlets.**
- 2. Pre-finished veneer material with a self adhesive backing is available upon request at additional cost. The pre finished veneer can be cut to the desired size and adhered to the cut ends utilizing the self adhesive backing. Once attached to the Linear wood product the excess material can be trimmed with a knife or sanded flush to the exterior profile of the cut end.**

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Linear Wood - Lay - In Linear Wood



Lay-In Linear Wood ceiling installed on heavy duty "T" bar grid complete with 3/4" reveal between plank sections.

1. Prior to installation please check and verify that all required components have been received. using the attached drawings identify all components received.
2. Check and verify the quantities of components received against the quantities required for the project.
3. Attach the screw-in type safety clips to the rear of the Lift and Shift panel. Note that up to six safety clips may be required for panels dependant on the panel length.

Note: All T bar grids utilized for the mounting of Linear Wood Products must be installed to support the loading applied to the structure by the Linear wood components. All main "T's" will be on 2'-0" centers with hanger wires located at no more than 4'-0" spacings. All cross "T's" will be located on 2'-0" centers.



Screw on Safety Clip



Border Clip

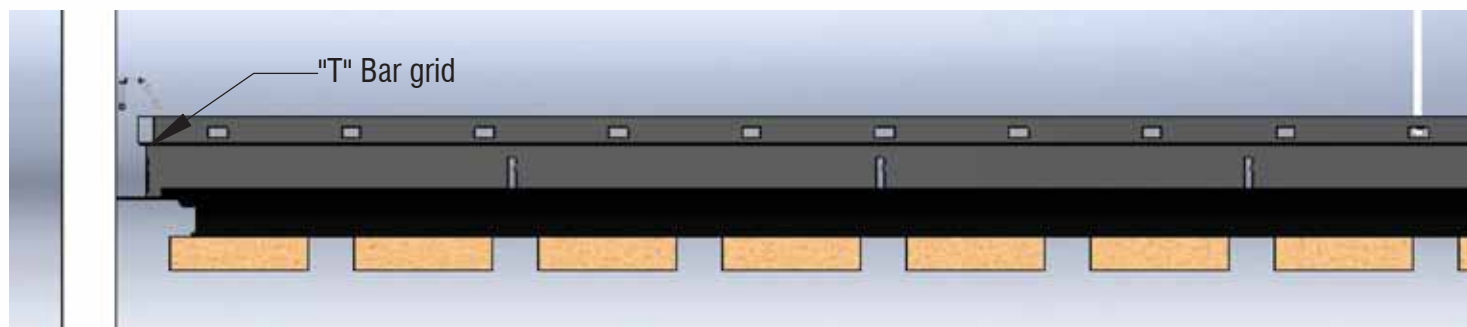


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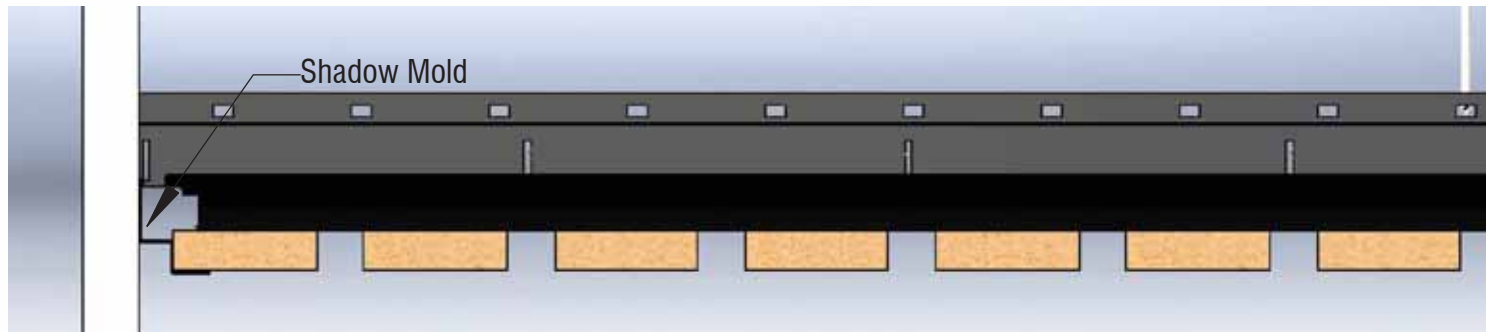
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Linear Wood - Lay-In Linear Wood

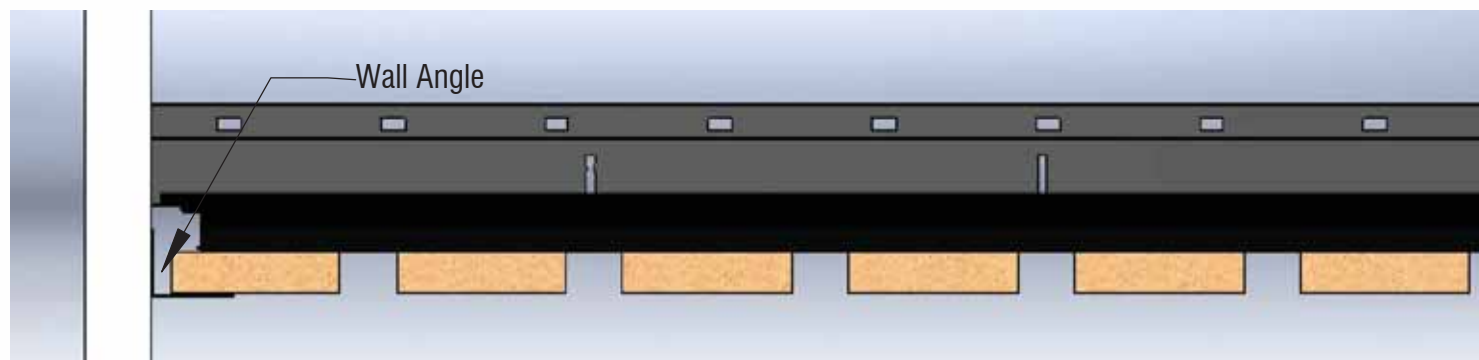
Typical Start and Finish Ceiling Installation Details



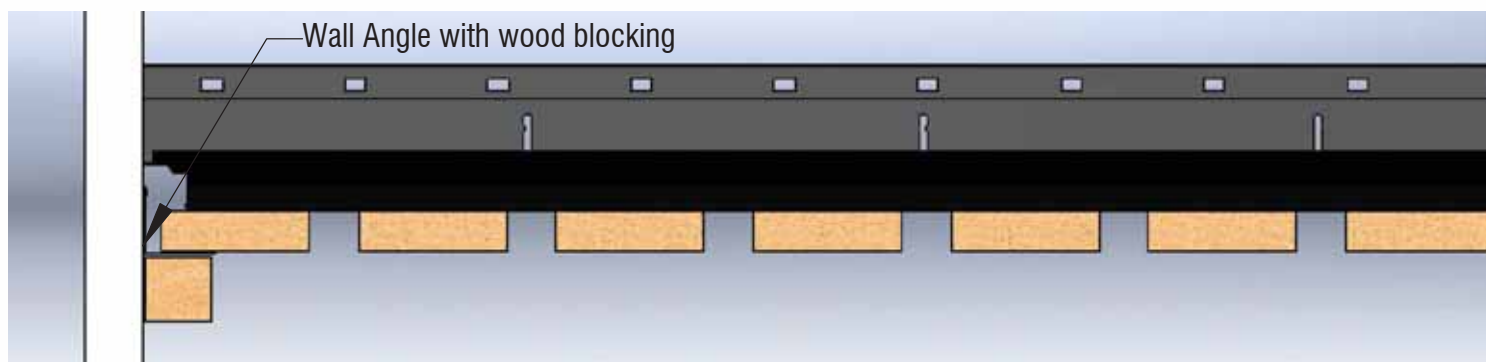
4. Lay-In linear wood on "T" bar grid at wall (as shown)



5. Lay-In Linear wood on shadow mold at wall (as shown)



6. Lay-In linear wood on wall angle at wall (as shown)



7. Lay-In linear wood on wall angle with wood blocking at wall (as shown)

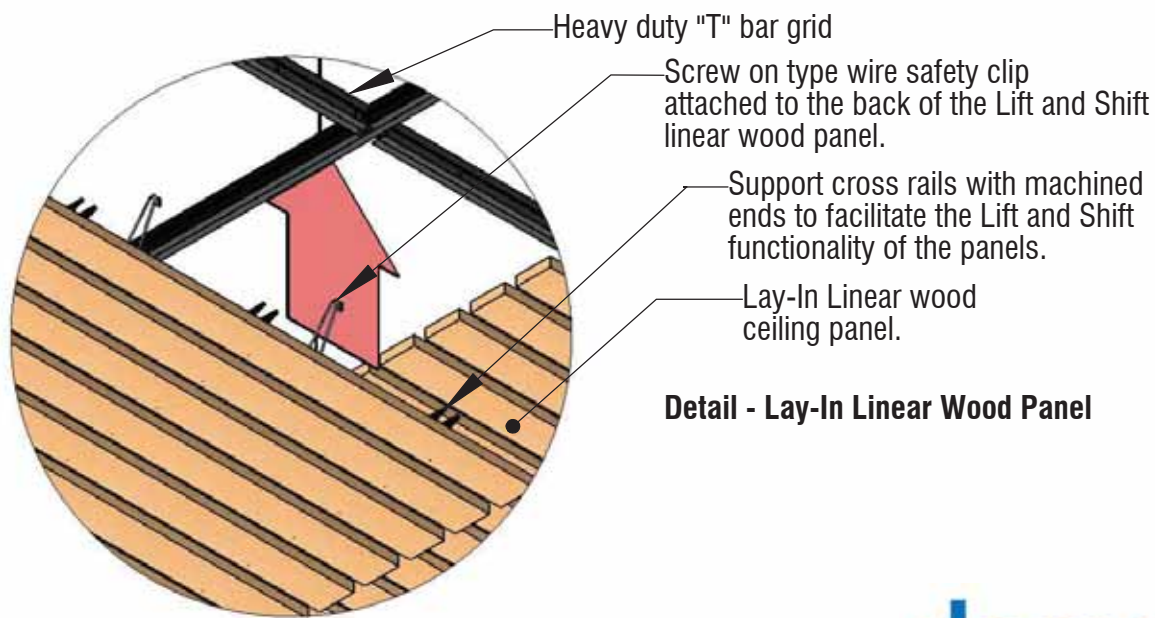
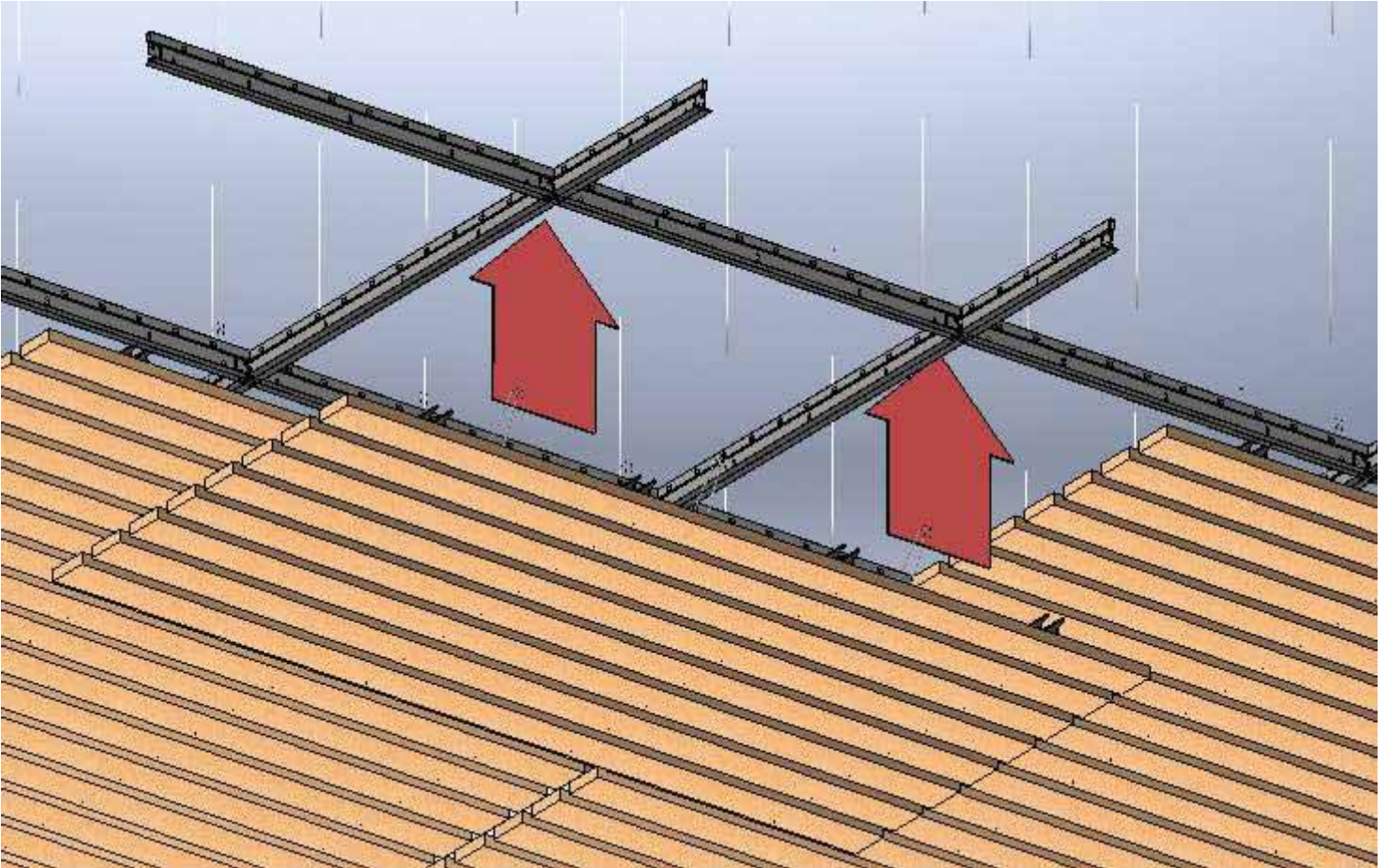
Typical "border" spring clip incorporated into the perimeter shadow mould trim as required. The spring clip maintains the positioning of the perimeter Linear Wood ceiling panels.



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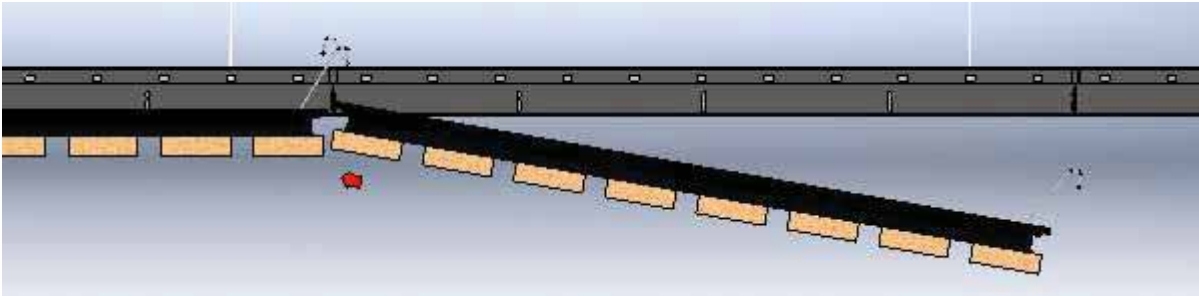
8. Lay-In linear wood panel positioned under the "T" bar support grid. the support rails on one side of the panel are then inserted into to the heavy duty "T" bar while the opposite side is rotated into the grid opening. The panel is then shifted to the side to seat itself in the grid.



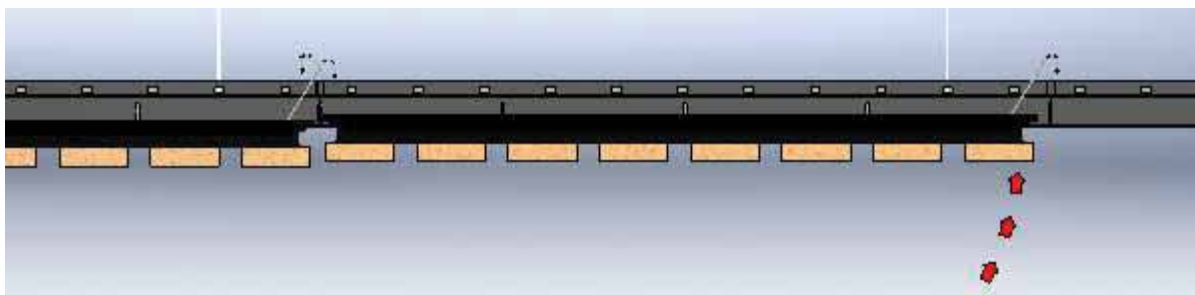
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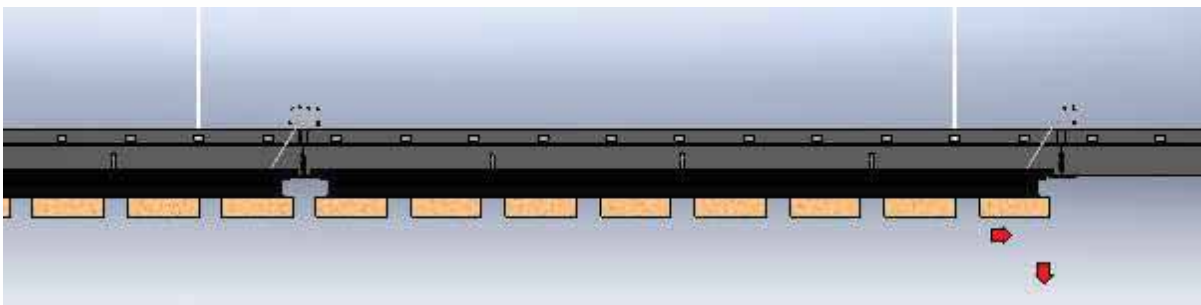
Step #1 To install Lay-In linear wood panels into "T" bar grid, insert the support cross rails into the "T" bar ceiling grid as shown in the drawing below.



Step #2 Once the cross rails are located inside the "T" bar grid rotate the opposite side of the panel up so that the cross rail supports clear the "T" bar grid.



Step #3 Once the opposite side cross rails are located inside the "T" bar grid slide the panel back so that the cross rail supports are now in contact above the "T" bar grid. Allow the panel to drop and seat itself in the "T" bar grid.



Step #4 The Lay-In linear wood panel is now installed in the grid. To remove the panel repeat steps One, two, and three in reverse order.



Typical "border" spring clip incorporated into the perimeter shadow mould trim as required. The spring clip maintains the positioning of the perimeter Linear Wood ceiling panels.

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Cutting through Linear Plank or Linear Blade rails will expose the mdf core material. It is recommended to finish the cut ends and in this way to seal the core material. There are several recommended ways of finishing the cut end:

- 1. Spray or brush coat the exposed ends of the Linear wood product with a high quality clear washable low sheen lacquer coating (recommended). Such products are available at most hardware or building supply outlets.**
- 2. Pre-finished veneer material with a self adhesive backing is available upon request at additional cost. The pre finished veneer can be cut to the desired size and adhered to the cut ends utilizing the self adhesive backing. Once attached to the Linear wood product the excess material can be trimmed with a knife or sanded flush to the exterior profile of the cut end.**

Note: We recommend that any installations of Linear wood products be done under the supervision of a qualified and experienced individual with a good thorough knowledge of wood working and cabinet building techniques.

ENVIRONMENT: Linear wood panels must be stored, installed, and maintained only in a stable ambient environment (relative humidity of minimum 35% - maximum 55%, temperature to be maintained between 20 -27°C (68-80°F)) Solo panels must be allowed to stabilize on site for 72 hours prior to installation

Special Services and Client Support

Linear wood products are purchased on the understanding that the materials supplied to our clients are a commodity type product. Decoustics can provide basic customer support related to the installation of Linear wood products.

For installations involving the customization of Linear wood products Decoustics can provide design and fabrication services at additional cost.



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