



panel products from patriot timber

IronPly[®]

Premium Underlayment

A large, light grey silhouette of a blacksmith working at an anvil, serving as a background for the central text.

IronPly[®] **Installation Guide**

Flooring contractors and installers depend on **IronPly[®] Premium Underlayment** from **Patriot Timber Products** for its consistent quality, durability and dependability.

Please review this guide to maximize the performance and appearance of your next flooring installation using **IronPly[®] Premium Underlayment**.

IronPly® & Materials Preparation

- Allow all materials used in your flooring installation to acclimate to the heated home environment, approximately 70°F, for 24 to 48 hours prior to use.
- Store all panels on their 8' edge (separately if possible) to allow equal air flow over the face and back of the material.
- Examine each piece of **IronPly®** Premium Underlayment using the Flex & Look Test.

Follow these steps:

1. Stand a piece of **IronPly®** vertically with its 4' edge on the floor and the panel face towards you (the panel face will have the nailing pattern on it).
2. Grip the top panel edge with your right hand and firmly place your left palm against the left-hand side of the panel face.
3. Pull down with your right hand approximately 3" while simultaneously pressing forward with your left palm approximately 3". Hold this position during inspection.
4. With the panel in this flex position, thoroughly inspect the entire panel surface for irregularities, which will look like "bubbles" or "creases." In the rare instance that you find such an irregularity, do not use the panel. Set it aside and contact Patriot Timber Products immediately for a resolution.



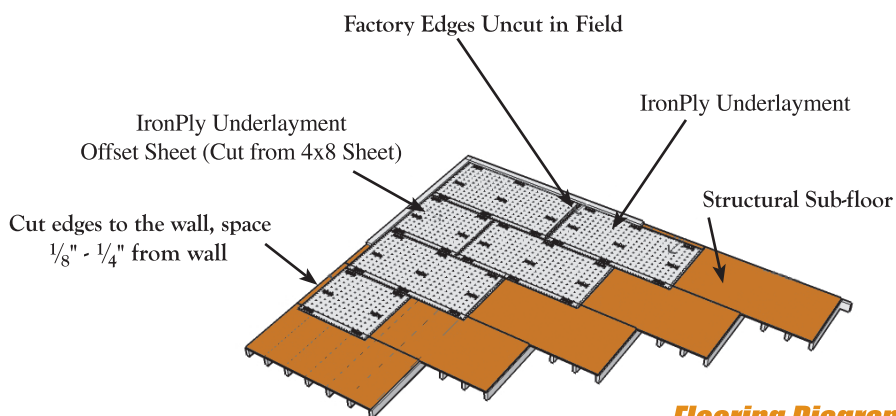
Flex and Look Test

Structural Sub-Floor Preparation

- Install **IronPly®** Premium Underlayment over a clean, dry, level, original sound structural sub-floor, or existing floor.
- Thoroughly scrape, sweep and vacuum the entire surface and strip any wax from the existing vinyl.
- Do not use any adhesive beneath **IronPly®** Premium Underlayment.

Positioning IronPly® Premium Underlayment

1. Run **IronPly®** panels perpendicular to the floor joists.
2. Begin by laying out the floor in a corner of the room where you can get the greatest amount of coverage without having to cut the **IronPly®** panels. The face with the nailing pattern is designed to go up.
3. Position **IronPly®** panels $\frac{1}{8}$ " to $\frac{1}{4}$ " from the walls to allow for expansion.
4. The panels should be cut so that the factory edges go together at the seams in the field of the floor. Hand cut exterior edges for installation next to the walls.
5. Stagger **IronPly®** panels to create a 2" minimum offset between the **IronPly®** and sub-floor seams.
6. When positioning **IronPly®** panels, you may butt the joints lightly together for patch free installation, or you may allow for an expansion joint of approximately $\frac{5}{64}$ " by using a nickel as a gauge on its edge to separate panels for subsequent seam filling.
7. Cut and place **IronPly®** Premium Underlayment on the sub-floor without any fasteners or "dry fit" all panels first before beginning any fastening.
8. Panels should be laid in an offset pattern as shown in the Flooring Diagram so that four corners never directly intersect.

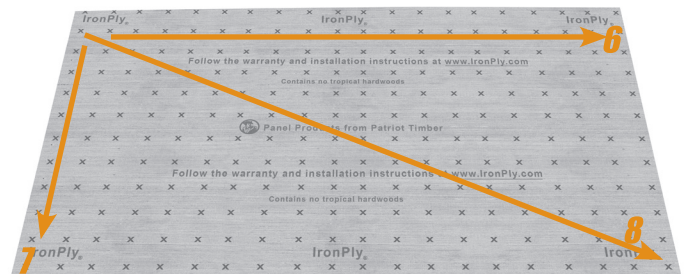


Flooring Diagram

Fastening IronPly® Premium Underlayment

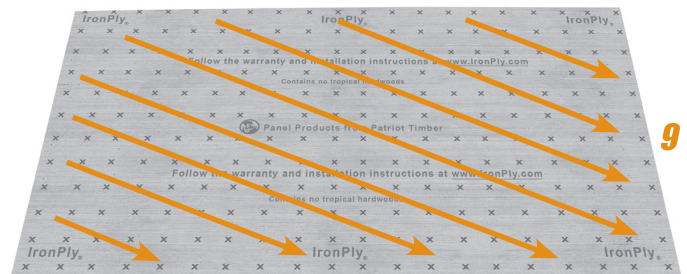
1. Do not use any adhesive on the sub-floor beneath **IronPly** Premium Underlayment.
2. We recommend a pneumatic fastener tool that incorporates an adjustable depth-drive control to prevent fastener “blow-through” or “over-driving.” If this feature is not available, adjust the air pressure on the compressor to an appropriate level to avoid fastener “over-driving” or “blow-through.”
3. Choose either double coated chisel point staples with a 1/4” maximum crown or coated ring shank underlayment nails with a 3/16” diameter head. The length of the selected fastener should be a minimum of 5/8” but not so long that it penetrates through the bottom side of the subfloor. Do not select a fastener that is uncoated, cement or rosin coated, as they may rust and discolor your floor.
4. Stand on each panel during fastening to ensure full contact with the sub-floor. Any “crackling” or “popping” noises indicate debris is underneath the panel. Should this occur, stop the installation, remove and discard the panel, then scrape, sweep and vacuum the sub-floor again until all debris is removed.
5. All fasteners should be countersunk slightly below the surface of the new underlayment.

6. Fasten the 8' edge first at 2” on center - 1/2” from edge - starting from the corner of the room. Leave an expansion joint of 1/8” to 1/4” between the panel and the edge of the walls. Stand on the panel to insure flush contact with the structural sub-floor and do not overdrive the fasteners.
7. Return to the starting corner and fasten the 4' edge at 2” on center - 1/2” from the edge of the panel.
8. Return to the starting corner and fasten the diagonal at 4” on center to the opposing corner.



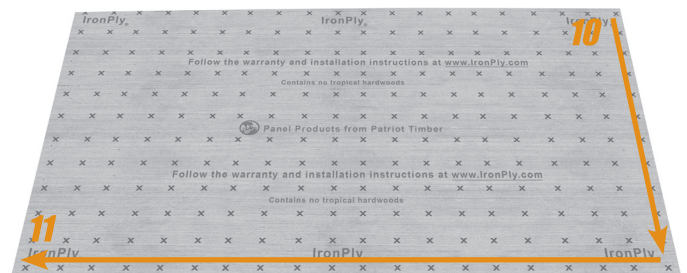
Fastener Diagram 6, 7, 8

9. Return to starting corner and fasten the “field” of the panel every 4” on center working in a diagonal direction across the face of the **IronPly**. Make sure to put a fastener in each “x” as you work diagonally across the panel.



Fastener Diagram 9

10. Fasten the remaining 4' edge 2” on center - 1/2” from the edge of the panel.
11. Finish the sheet by fastening the remaining 8' edge 2” on center - 1/2” from the edge of the panel. Note that the same procedure is used as well for the offset sheet which would start the next row of underlayment.



Fastener Diagram 10, 11

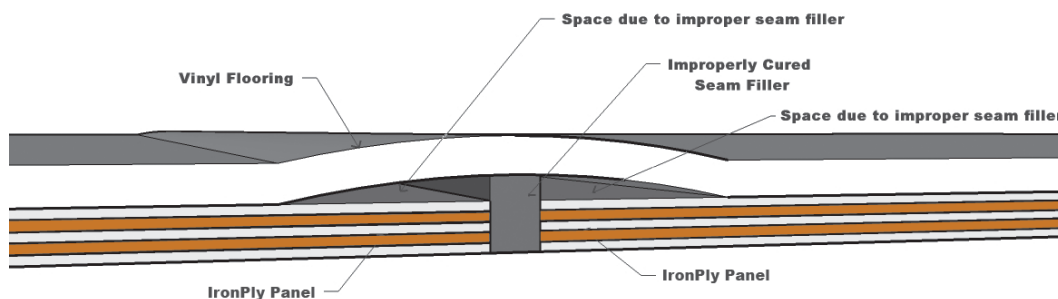
Using Seam Filler with IronPly®

1. If you choose to install the **IronPly®** with an expansion joint you must use a seam filler.* Check with your flooring supplier/manufacturer to be certain your seam filler is acceptable.
2. Do not “floor-mix” seam fillers on top of the **IronPly®** panel face. Mix the seam filler separately in a bucket.
3. Once the panels are fastened, apply the seam filler and allow it to dry completely in accordance with the manufacturer’s instructions. Allow sufficient curing time to completely dry the seam filler.
4. Sand all joints with a belt or floor sander until level and smooth. Hand sanding is not sufficient.
5. Do not oversand or “cup” the joints. Some additional application, drying time and sanding may be necessary to smooth high or low spots.
6. After sanding, the seam filler should fill the seams and be flush with the edges of the **IronPly®** panels. We do not accept “feathering” as a substitute for sanding the seam filler.
7. Thoroughly vacuum the entire area to remove all debris before installing the floor covering.

* Note: You may leave an expansion joint without seam filler when **IronPly®** is used under carpet, engineered floors, or wood floors.

Notes on Telegraphing Seams

Telegraphing of seams is a result of incorrect installation and/or insufficient acclimation of the underlayment. The acclimation requirement exists with all forms of underlayment and is a CRITICAL part of any installation. Without acclimation a panel can expand up to 1/4” in the panels length and width. Most seam problems occur because the panels are not acclimated and installed cold with no expansion joint. When the panels reach room temperature, they expand and arc up at the edges as the seams are pushed together. There are many other factors that can affect the potential for telegraphing seams such as the sub-floor, vapor barriers, humidity, moisture content, and seam filler preparation. Nothing short of physical plywood failure such as a delamination will be warranted with regard to telegraphing seams.



Caution Regarding Point Overloading

After installation, care should be taken to avoid “point overloading” of the finished floor. When moving or positioning any heavy object across the floor (such as a large appliance), place a minimum of 1/2” plywood on top of the completed floor to prevent point overloading.



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Installers and purchasers are solely responsible for evaluating job conditions, building and safety codes, necessary installation tools, hardware and finishing products, any manufacturer recommendations and the end-use application to determine the suitability of **IronPly® Premium Underlayment**.
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