

What in the world is HPL ?

HIGH PRESSURE LAMINATE

For those of you who have just discovered high pressure laminate (HPL) and are here because you love design and interiors, you've come to the right place! HPL or high pressure decorative laminate (HPDL) is one of the most durable surface materials out there. It is used in interiors and furniture making across the world and is considered the most environmentally friendly countertop surface. And here at PoliLam, we care about protecting our environment.

HPL is resistant to impact, abrasion, and everyday surface wear and tear, as well as being water resistant. It can withstand medium-to-intense use, so it isn't just perfect for use in your home, but can also be used in schools, hotels, offices, restaurants, and even lavatories.

Design Design Design
Did we mention that design is our passion? We love beautiful things and HPL is beautiful! HPL technology and design have come a long way, especially since the early days of dull countertops. We now realize that we can replicate Earth's natural wonders by creating and adjusting designs to make the most suitable application for interiors from woodgrain to marble to stone. Don't just take our word for it; check it out for yourself!

Properties of PoliLam Decorative Laminates

Aesthetic Design	Easy to Install
Flexibility	Easy to Clean
Durability	Fire Resistant
Water Resistant	Environmentally Friendly
Hygienic Properties	Enhanced Texture Haptics
Antistatic	Matching Edge Banding





Fire Performance

The safety and fire performance of PoliLam's HPL is excellent. It has low smoke emissions and is flame retardant, helping to slow the spread of flames.

Formaldehyde Release

We care about the environment, and we are proud that our HPL is a product with low penetrability, thus providing a barrier against emissions of volatile organic compounds (VOCs) and formaldehyde. PoliLam's HPL has Singapore green label certifications as well as GreenGuard and GreenGuard Gold.

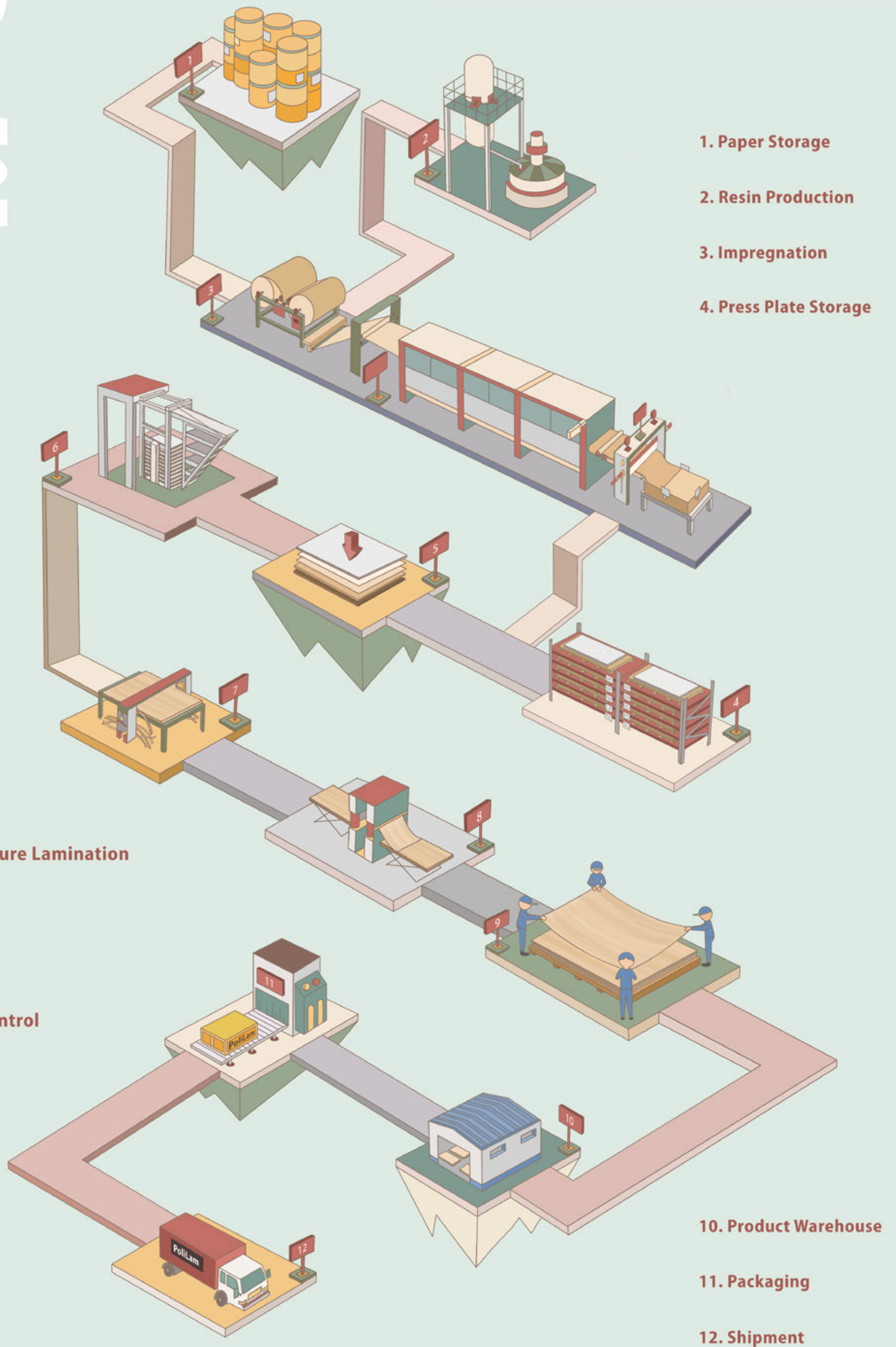
Special Additional Features:

 Antibacterial	 Postforming Grade
 Fingerprint Resistant	 Scratch Resistant

Fingerprint and Abrasion Resistant

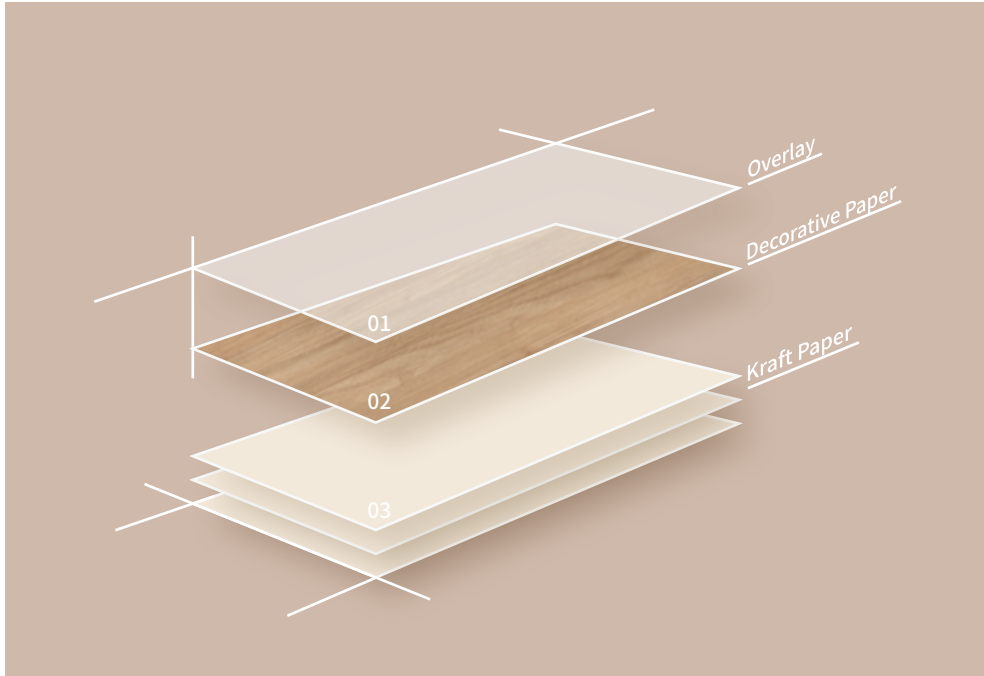
Our Ace Surfaces™ collection is made using electron beam curing, which creates an ultra-matt surface that is resistant to fingerprint and residue. It also has scratch and abrasion-resistant properties.

HPL Manufacturing Process



How is this durable surface HPL made?

Let's get a little technical



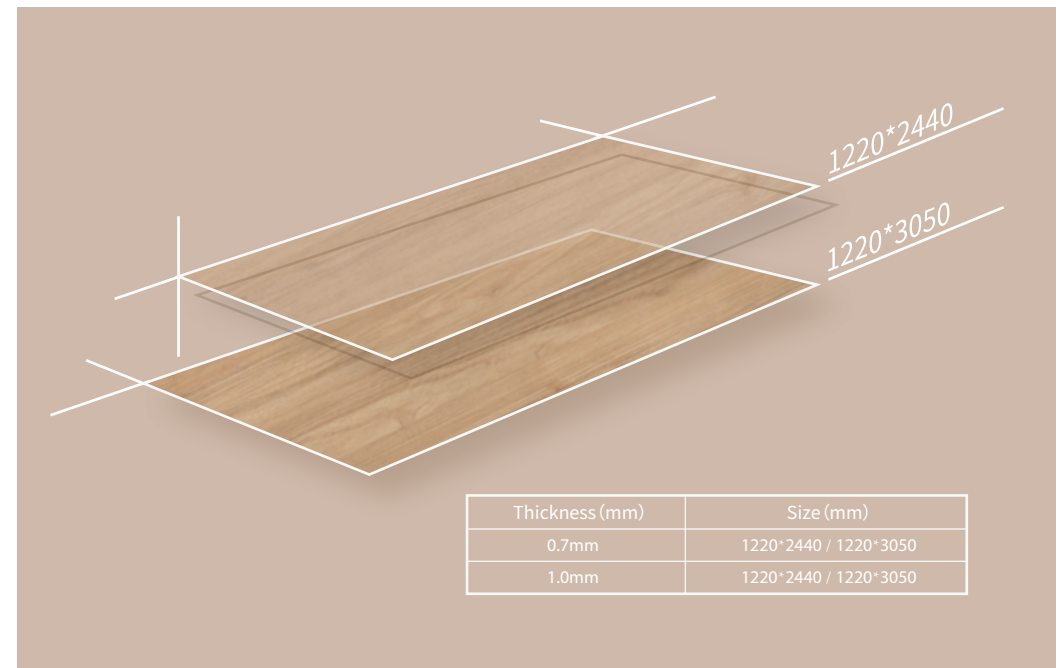
- Overlay: a highly transparent paper which makes the surface of the laminate abrasion and scratch resistant.
- Decorative paper: a colored or patterned paper that gives the laminate its aesthetic appeal.
- Kraft paper: the core of the laminate. It is usually a light brown color and forms the basis of HPL.

Mix it all together and press it tightly between textured press plates. Add high pressure and heat, and a PoliLam HPL sheet is ready to go.

How to make?

HPL is produced by layering paper and phenolic resins and fusing them together under intense heat and pressure. This thermosetting process transforms the resins into plastic and the paper sheets into a single rigid laminated sheet with one decorative side. The decorative layer provides the design for the laminate the design we've worked so hard to bring to life.

What size is our HPL?



Properly Handling HPL



01 | Transporting

Safety first! Handling of HPL sheets should be done with care to avoid any damage. When loading and unloading sheets, they should be lifted carefully and not slid on top of each other. Smaller sheets can be handled by one person, but ensure the decorative side of the laminate is facing towards the body of the carrier.

Handling of large HPL sheets always requires two people one on each side. To avoid damage while transporting, be careful to protect the corners of the sheets against hard objects.

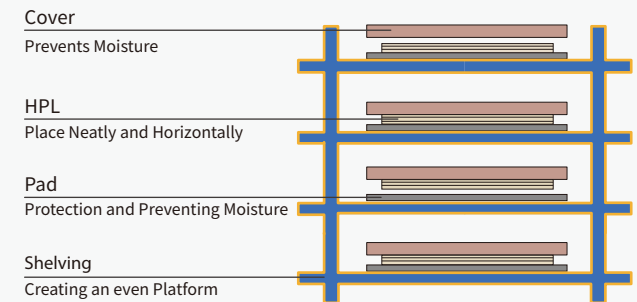


02 | Packaging

When packaging 25 sheets or fewer, they can be rolled. Before transporting, be sure to roll up the HPL with the decorative side facing inwards and secure with durable twine on both ends of the roll. Be cautious when carrying the packaged rolls, and do not place any heavy objects directly on top of the roll. The rolled-up sheets can be placed in a wooden crate for additional protection during transportation.

When packaging 25 sheets or more, flat crate packaging is recommended. The crate packaging should then be transported using a forklift.

Correct Horizontal Storage

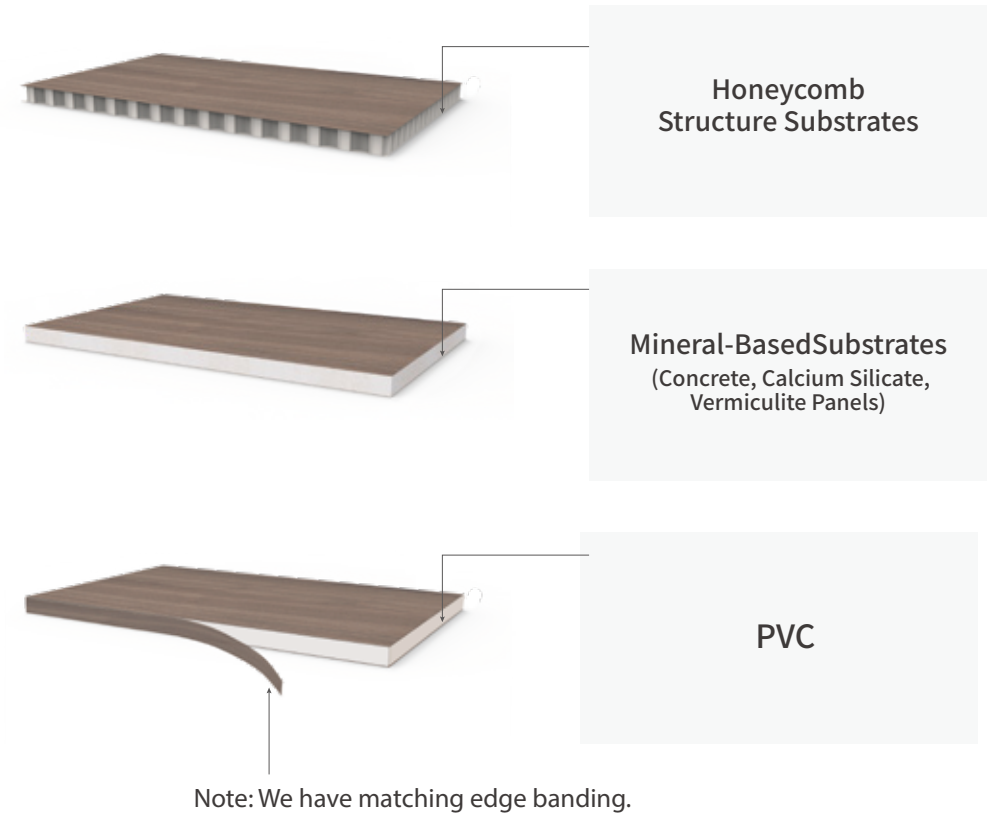
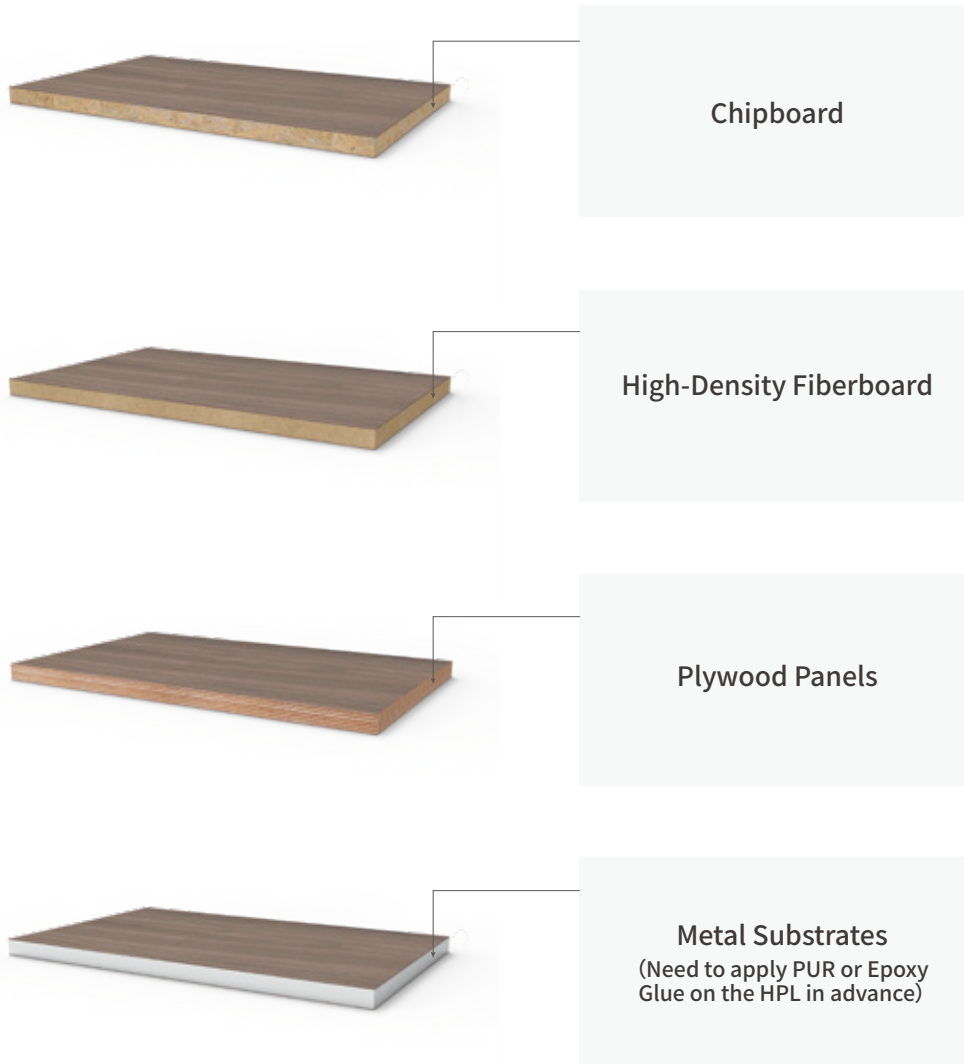


03 | Storing

HPL Sheets should be stored in a cool, dry room away from direct sunlight. They should not touch the wall or the floor, and they must be kept in an enclosed area with a temperature between 10 and 36°C (50 and 96.8°F) and humidity between 60–65%. HPL should be placed neatly and horizontally on a shelf or pallet with cover and backing plates underneath. This ensures the HPL is displaced evenly and protects it against moisture. If planning to store for an extended period, wrap with straps to prevent warping.

If horizontal storage is not possible, the sheets can be placed in piles at a 60–70° angle, resting against a rigid support along with a slip-prevention device. The sheets must not touch the wall or floor.

Which substrates can HPL be applied too?

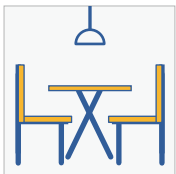


- ✗ NOT RECOMMENDED FOR APPLYING**
- 01. Plaster or Concrete Surfaces
 - 02. Wallpaper Surfaces
 - 03. Solid Wood

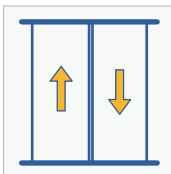
Where can we use HPL?

Market Sectors

Furniture



Elevators



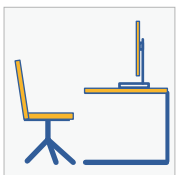
Education



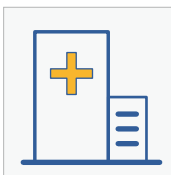
Bathrooms



Offices



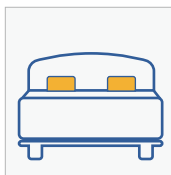
Healthcare



Transport



Hotels



Retail



Kitchens



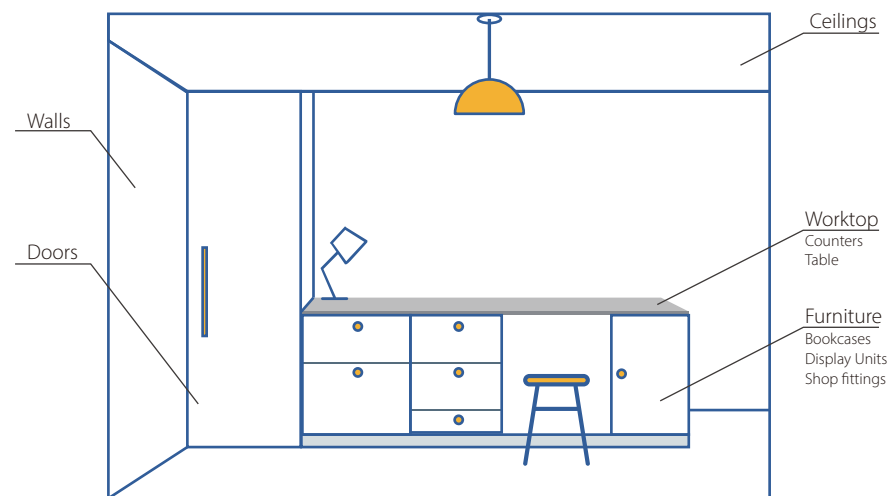
Restaurants



Exhibition Halls



Application



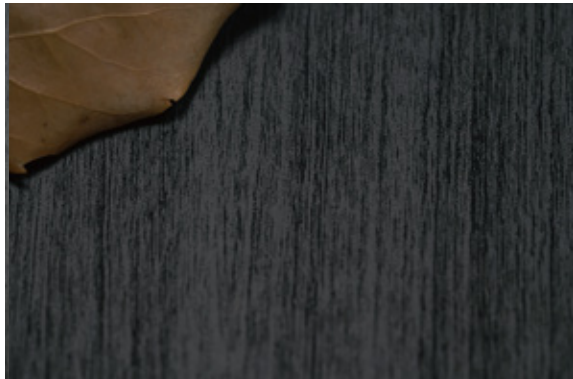
A perfect surface solution for practically any horizontal or vertical application.

SURFACE FINISHES



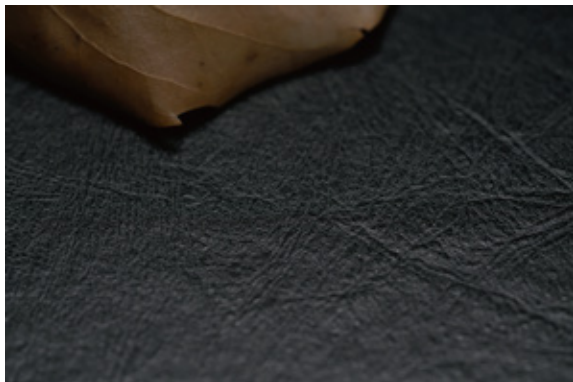
MT Matt

An extreme matt finish and texture, bringing to life a smooth look and feel. MT is ideal for stones, marbles, and designs used for tabletops and those aiming for an industrial look.



IV

A suitable and strikingly natural texture, primarily used to enhance certain woodgrains within our collection. IV creates a feeling comparable to those grains and textures you would find on real wood. Our IV texture has a real-feel touch with its deep and grooved indentations.



LP Leather

Replicates the feel and look of real leather, bringing to life a well-worn, weathered design. LP is a classic, timeless, and elegant look.

Texture

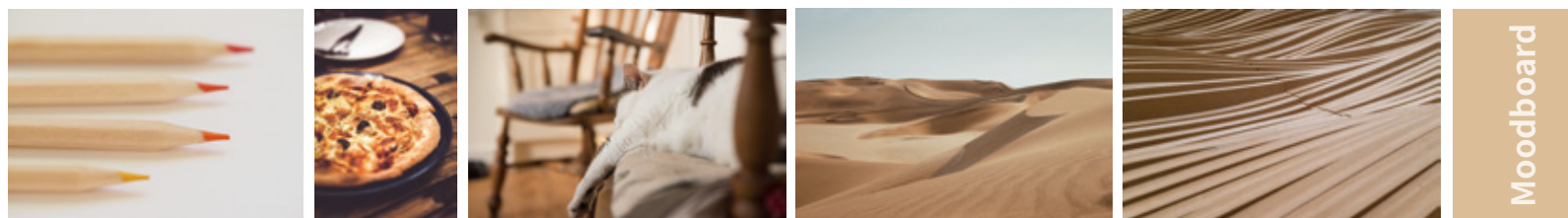
Texture is at the core of our philosophy. Advanced technology in texture haptics allows us to create natural-feeling products, so our designs are enhanced with a perfect texture match.

We curate our collection through a rigorous vetting process. By finding the ideal press plate textures to match our designs, we work to ensure each surface achieves a perfect textured finish. To understand our surfaces, not only do you need to see them; you need to feel them.

Surface Finishes

AS	Ace Supreme™	PS	Textured Pebble Stone
AP	Ace Premium™	CO	Textured Stone
A	Standard Finish	FM	Fabric Material
IV	Real Feel Wood	HG	High Gloss
VF	Veneer Finish	MT	Matt
HD	Horizontal Direction	RT	Rough Textured
RW	Real Wood	SU	Real Feel Stone
LA	Light Matt	SY	Subtle Textured Stone
DW	Deep Wood	LZ	Italian Leather
TX	Textured	LP	Real Leather

Applications



Moodboard

Collection



W0030B

■ Maintenance of HPL

HPL does not require any special maintenance. For the most part, a moist towel or any standard household products will get the job done. To protect your HPL surfaces, avoid using abrasive cleaning materials.

For difficult stains, please refer to the chart below.

Coffee, Wine, Ink	Sponge with Water
Cooking Residue, Eggs, Dry Blood or Wine	Sponge with cold water and soap or mild detergent
Glue, Gum, Smoke, Gelatine	Sponge with hot water and soap or mild detergent
Hair Spray, Make-up, Nail Polish	Alcohol or Acetone with a cotton cloth Solvents
Oil Paint	Trilene Nitre Based 10% citric/acetic acid
Limescale Deposits	Detergent with less than

Care Guide:

PoliLam High Pressure Decorative Laminates are durable, impact, and abrasion resistant under common use. However, to ensure the longest life and care of your laminates:

1. Do not use sharp objects on the laminate surface.
2. Do not cut, slice, or pound directly on the laminate.
3. To avoid HPL separation from the substrate do not expose to temperatures over 60°C (140°F) for long periods of time.
4. Although HPL is waterproof, avoid wetting the joints as they may affect your substrate and cause it to swell.
5. Avoid placing extremely hot cookware or household items directly onto the surface.



PoliLam has achieved Green Label Singapore certification, for low emissions and low toxicity.



PoliLam products have achieved EN Standard certifications.



PoliLam products have completed a number of ISO certifications.



PoliLam has achieved GREENGUARD AND GREENGUARD GOLD certification for indoor air quality.

Please contact us to receive a copy of our certificates and test reports.