

Pionite®

Backing Sheets Technical Bulletin

Product Identification

Pionite Backing Sheets are applied to the back of a substrate that is faced with a high pressure decorative laminate. With proper application, Pionite Backing Sheets will provide dimensional stability to the assembly, reducing the likelihood of warpage. Pionite Backing Sheets are phenolic laminate that are not intended for decorative surfacing. A slight variation in color is normal and should be anticipated. Pionite Backing Sheets are available in either brown or black. Backing Sheets are normally sanded on one side, however, both sides can be sanded.

Product Description

Type	Standard Nominal Sizes		
	Thickness*	Width	Length
B20 (in)	0.020	30, 36, 48, 60	96, 120, 144
(mm)	0.5	762, 914, 1219, 1524	2438, 3048, 3658
B28 (in)	0.028	30, 36, 48, 60	96, 120, 144
(mm)	0.7	762, 914, 1219, 1524	2438, 3048, 3658
B37 (in)	0.038	30, 36, 48, 60	96, 120, 144
(mm)	1.0	762, 914, 1219, 1524	2438, 3048, 3658
B48 (in)	0.048	30, 36, 48, 60	96, 120, 144
(mm)	1.2	762, 914, 1219, 1524	2438, 3048, 3658

*Other thicknesses of Backing Sheets are available upon request.

Typical Uses

Pionite Backing Sheets applied to substrates faced with Pionite high pressure decorative laminate impart stability and reduce the likelihood of warpage to the final product. For best results, the backing sheet thickness should be relatively equal to that of the decorative laminate on the face of the assembly. For this reason, many thicknesses of backing sheets are offered.

Codes and Certifications

1. U.S. Federal Specification L-P-508H, "Plastic Sheet, Laminated, Decorative and Nondecorative." Pionite Type B20, B28, and B48 comply.
2. American National Standards Institute/National Electrical Manufacturers Association (ANSI/NEMA), LD3-1995, "High-Pressure Decorative Laminate." Pionite Type B20, B28, B37, and B48 comply.

Fabrication Tips

When working with Backing Sheets, these techniques will produce a quality application.

1. Proper conditioning of the laminate, substrate, and backing sheet minimizes possible warping, shrinking, or expansion of assembled panels. Ideally, all components should be conditioned at 70° F to 75° F (21° C to 25° C) and 45 to 50 percent relative humidity for 48 hours prior to assembly.
2. Always bond backer to a suitable substrate such as medium to high density fiberboard, particleboard, or metals. It should not be glued directly to plaster walls, gypsum wallboard, or concrete.
3. Recommended adhesives include solvent or water-based contact cement, white glue (PVA), epoxy, and hot melt glue. Consult your adhesive supplier for specific application requirements.
4. All saw blades and router bits used for cutting should be carbide tipped. Feed rate should be slow and tool speed should be high.
5. Inside corners of cutouts for electrical outlets, sinks, etc., should have a minimum radius of 1/8" (3 mm) and be filed smooth. This reduces the likelihood of stress cracks.
6. All edges of backer should be filed smooth to help prevent stress cracks and to minimize chipping.
7. When nails or screws must be used, it is advisable to first drill an oversized hole through the backer. This reduces the likelihood of stress cracks.
8. All laminate is intended for interior use only, and should not be exposed to extreme humidity, continuous sunlight, or temperatures above 275° F (135° C) for extended periods of time.

Manufacturing Headquarters

Pionite® Decorative Surfaces

One Pionite Rd.
P.O. Box 1014
Auburn, ME 04211-1014
(207) 784-9111
800-PIONITE (746-6483)
www.pionite.com

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Limited Warranty

Subject to the limitations set forth below, Pionite® Decorative Surfaces expressly warrants that our products are reasonably free of defects in material and workmanship, and when properly handled and fabricated will conform, within accepted tolerances, to applicable manufacturing specifications as set forth in our technical brochure. This warranty shall extend to the original buyer for a period of twelve (12) months from the date of shipment of this product by Pionite® Decorative Surfaces, and shall not be assignable by the original buyer. This warranty does not cover damage resulting from accident, misuse, alteration, abuse or lack of reasonable care.

Due to the variety of uses and applications to which this product may be put, and because the manufacturer has no control over the end products fabricated, the warranty set forth above is exclusive and in lieu of all other warranties, express or implied, in fact or by operation of law or otherwise, or arising by course of dealing or performance, custom or usage in the trade, including, without limitation, the implied warranties of fitness for a particular purpose and merchantability, and Pionite® Decorative Surfaces shall have no obligation or liability to any person or entity in connection with or arising from the furnishing, sale, installation or repair, use or subsequent sale of any product supplied by it.

The buyer's sole and exclusive remedy for any noncompliance with the express warranty set forth above shall be limited to repair or replacement of the defective product, or, in the event that repair or replacement is not feasible, return of the product and refund of the purchase price.

Under no circumstances shall the manufacturer be liable in excess of the purchase price of this product, in either tort or contract or otherwise, for any loss, damage or injury in connection with or arising from the purchase, use, or inability to use this product, or for any special, indirect, collateral, incidental, consequential or exemplary damages such as, but not limited to, loss of anticipated profits or other economic loss. Because some states do not allow the exclusion or limitation of incidental or consequential damages, this limitation may not apply to you.

Retaining all documentation after purchasing laminate will significantly expedite claim resolution.