

1. **Manufacturer**

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2. **Product Description**

Recommended Uses

Wilsonart® Phenolic Laminate Backer Sheets are designed for use in a three (3) ply fabrication on the backside of substrates faced with Wilsonart® High Pressure Decorative Laminates. Types of fabricated pieces using these products include commercial and residential furniture, wall panels, countertops, & cabinetry. Wilsonart Phenolic Laminate Backer Sheets provide the fabricated piece with some balancing characteristics and added protection from the effects of humidity in their normal use. Wilsonart Phenolic Laminate Backer Sheets are not designed as a functional decorative surface.

Wilsonart Phenolic Laminate Backer Sheets are available in various types and thicknesses.

Product Composition

Wilsonart Phenolic Laminate Backer Sheets are composed of kraft paper core sheets impregnated with phenolic resin. These sheets are then bonded at pressures greater than 1000 lbs. per square inch at temperatures approaching 300° F (149° C). Finished sheets are trimmed, and one or both sides are sanded to facilitate bonding.

Basic Limitations

Wilsonart Phenolic Laminate Backer Sheets are designed for interior use only and are not recommended for direct application to plaster, concrete walls, or gypsum wallboard. These laminates are not structural materials, and must be bonded to suitable substrates.

Do not subject Wilsonart Phenolic Laminate Backer Sheets to extremes in humidity, or temperatures higher than 275°F (135°C) for substantial periods of time, or intense, continuous, direct sunlight. Over exposure to extreme heat may cause cracking and crazing, or discoloration.

Materials and Finishes

Because Wilsonart Phenolic Laminate Backer Sheets are produced primarily for application to unexposed surfaces, Phenolic Laminate Backer sheets have one side sanded, and one brown (natural) colored side (no color guarantee). Product Type 293 (black core-black face). To obtain sanding on both sides, specify product type.

Sheet Widths

30"	36"	48"	60"
762mm	914mm	1219mm	1524mm

Sheet Lengths

96"	120"	144"
2438mm	3048mm	3658mm

Note: Not all sizes are available from stock; contact your Wilsonart representative for details on availability.

3. Technical Data

Thickness and Weight

Product Type	Sanded Sides	Thickness	Weight per sq. ft. (lbs.)
202	One	0.020" ± 0.003" (0.51mm ± 0.008mm)	0.131
203	One	0.028" ± 0.004" (0.71mm ± 0.10mm)	0.167
204	Both	0.033" ± 0.003" (0.84mm ± 0.08mm)	0.262
205	One	0.030" ± 0.003" (0.76mm ± 0.08mm)	0.173
206	One	0.045" ± 0.0003" (1.11mm ± 0.08 mm)	0.297
207	One	0.048" ± 0.005" (1.22mm ± 0.13mm)	0.297
211	Both	0.075" ± 0.004" (1.90mm ± 0.101mm)	0.5782
213	Both	0.105" ± 0.005" (2.67mm ± 0.13mm)	0.7709
220	Both	0.018" ± 0.003" (0.46mm ± 0.08mm)	0.117
222	Both	0.018" ± 0.003" (0.46mm ± 0.08mm)	0.117
230	One	0.0295" ± 0.002" (0.749 mm ± 0.0508mm)	0.181
231	One	0.028" ± 0.004" (0.71mm ± 0.10mm)	0.167
240	One	0.039" ± 0.005" (0.99mm ± 0.13mm)	0.264
264-FR	Both	0.030" ± 0.004" (0.76mm ± 0.10mm)	0.223
266-FR	Both	0.050" ± 0.005" (1.27mm ± 0.13mm)	0.359
268	Do Not Sand	0.500" ± 0.021" (12.70mm ± 0.51mm)	3.537
269	Do Not Sand	0.250" ± 0.012" (6.35mm ± 0.30mm)	1.810
271	Do Not Sand	0.312" ± 0.014" (7.93mm ± 0.36mm)	2.200
272	Do Not Sand	0.375" ± 0.017" (9.525mm ± 0.4318mm)	2.552
275	Do Not Sand	0.750" ± 0.027" (19.05mm ± 0.68mm)	5.375
290	Do Not Sand	1.000" ± 0.030" (25.40 mm ± 0.73mm)	7.187
292	One	0.020" ± 0.003" (0.51mm ± 0.08mm)	0.131
293	One	0.028" ± 0.004" (0.71mm ± 0.10mm)	0.191

295	One	0.030" ± 0.003" (0.76mm ± 0.08mm)	0.230
297	One	0.036" ± 0.003" (0.9144mm ± 0.0762mm)	0.280
298	Do Not Sand	0.125" ± 0.008" (3.18mm ± 0.20mm)	0.948

General Standards

Wilsonart Phenolic Laminate Backer Sheet Types 202, 203, 207 and 240 conform to the relevant standards for BKL, BKV, BKH, and BKM respectively, of the American National Standards Institute/ National Electrical Manufacturers Association (ANSI/NEMA), LD 3-2005, for thickness.

Since such backer sheets are designed for application to the unexposed backs of fabricated pieces, NEMA LD 3-2005 sets no standards for performance properties or appearance on these products.

The UL GREENGUARD Environmental Institute™ has awarded its UL GREENGUARD Indoor Air Quality Certification to Wilsonart Laminate. All Wilsonart Laminate product types were tested under the stringent UL GREENGUARD Standards for low-emitting products. All UL GREENGUARD Indoor Air Quality Certified® products ensure minimal impact on the indoor environment. For a copy of the certificate, visit www.greenguard.org.

Codes and Certifications

- **Fire-Rated Backer (BKV) Type 264:** A stabilizing backer sheet for applications where the decorative surface is Wilsonart® Fire-Rated Type 604 (Vertical Surface).
- **Fire-Rated Backer (BKH) Type 266:** A stabilizing backer sheet for applications where the decorative surface is Wilsonart® Fire-Rated Type 605 or 607 (General Purpose).

The U.S. Coast Guard approves Wilsonart Laminate Backer Types 205, 264, and 266 for "Interior Finish" as follows.

Military/Ships

Product Type	U.S.C.G. Certificate of Approval	Canadian Board of Steamship Inspection
264-FR	164.012/46/0 & 164.112/11/0	G1-161
266-FR	164.012/106/ & 164.112/12/0	G1-165
205	164.012/132/0 & 164.112/6/0	G1-168 (R1)

Mobile Homes

U.S. Federal Register August 9, 1984, Housing and Urban Development Mobile Home Construction and Safety Standard (24CFR), 3280.203. Fire-Rated Laminate Types 264 and 266 comply.

Typical Fire Test Data

Underwriters' Laboratories of Canada/Listed Plastic Material/Form 50. Classified as to surface burning characteristics in accordance with the standard CAN/ULC-S 102-2.

Typical Flame Spread and Smoke Developed Properties

NEMA Type	Wilsonart Product	Unbonded	Bonded to Incombustible Cement Board	Bonded to Fire-Rated Particleboard
BKV	264-FR	15/0	15/0	20/10
BKH	266-FR	20/0	15/0	10/15

Note: Adhesive to attain Flame Spread and Smoke Developed figures for bonded laminates (above) is resorcinol. Fire-rated particleboard is Duraflake, with a UL rating 25/25, or comparable material. The above values are UL approved.

4. **Fabrication and Assembly**

Fabrication should follow approved methods. Assembled pieces should meet the specifications of KCMA (Kitchen Cabinetmakers Manufacturers Association), ANSI A-162.2-1998 (revised), and “Architectural Woodwork Quality Standards, Guide Specifications and Quality Certification Program” guidelines of the Architectural Woodwork Institute where applicable.

Wilsonart Phenolic Laminate Backer Sheets must be bonded to a suitable substrate of reliable quality, such as particleboard, medium density fiberboard or plywood with one A-face. All decorative laminate, plaster, concrete and gypsum board should not be considered suitable substrates. Wilsonart Phenolic Laminate Backer Sheets may not be used as structural members. Wilsonart Phenolic Laminate Backer Sheets may be bonded with most adhesives.

Recommended adhesives are permanent types, such as urea and polyvinyl acetate (PVA), and contact types. Wilsonart® Adhesives are recommended for most bonding applications. Please follow all manufacturers’ recommended instructions and technical data information.

Take care to ensure an appropriate acclimation between the laminate the substrate and the phenolic backer sheets prior to fabrication. The materials should be acclimated/conditioned a minimum of 48 hours before fabrication.

The recommended conditioning/acclimation temperature for the materials is approximately 75°F (24°C), with 45-55% relative humidity.

Carbide-tipped saw blades and router bits are recommended for cutting. High tool speed and low feed rates are advisable. Cutting blades and bits should always be kept sharp. The use of a hold-down bar is recommended to prevent vibration.

5. **Warranty**

6. **Maintenance**

Surfaces with Wilsonart Phenolic Laminate Backer Sheets requires little or no maintenance as long as they are protected from physical abuse.

7. **Technical Services**

For samples, literature, questions or technical assistance, please contact our toll-free Hotline at (800) 433-3222, Monday through Friday, 8 am – 5 pm, CST.