

Wilsonart® Phenolic Backer Sheets
(Types #202, #203, #204, #205, #207, #208, #220, #240, #264, #266, #293)
Technical Data

Manufacturer

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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 balance and 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. Typically phenolic laminate backer sheets should be about the same as the thickness specified for the decorative face laminate used in the application. This allows for a balanced panel.

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	914m	1219m	1524m
	m	m	m

Sheet Lengths

96"	120"	144"
2438m	3048m	3658m
m	m	m

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

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
207	One	0.048"± 0.005" (1.22mm ± 0.13mm)	0.297
208	One	0.060"± 0.005" (1.52mm ± 0.13mm)	0.406
220	Both	0.018"± 0.003" (0.46mm ± 0.08mm)	0.117
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
293	One	0.028"± 0.004" (0.71mm ± 0.10mm)	0.191

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 GREENGUARD Environmental Institute™ has awarded its GREENGUARD Indoor Air Quality Certification to Wilsonart Laminate. All Wilsonart Laminate product types were tested under the stringent GREENGUARD Standards for low-emitting products. All GREENGUARD

Indoor Air Quality Certified® products ensure minimal impact on the indoor environment. For a copy of the certificate, visit www.greenguard.org.

Codes & 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.

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

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state; therefore, some or the limitations stated above may not apply to you. It is to your benefit to save your documentation upon purchase of a product.

Technical Services

For samples, literature, questions or technical assistance, please contact our toll-free Hotline at (800) 433-3222, Monday through Friday, 7 am – 7 pm, CST.

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TS TECHNICAL SPECIFICATIONS

Phenolic Laminate Backing Sheet Types

PRODUCT TYPE	FACE MATERIAL	SANDED SIDES	THICKNESS ± 10%
202	Laminate	one	0.018" (0.457mm)
203	Laminate	one	0.030" (0.762mm)
204	Laminate	both	0.033" (0.838mm)
207	Laminate	one	0.050" (1.270mm)
208	Laminate	one	0.060" (1.524mm)
209	Laminate	both	0.060" (1.524mm)
211	Laminate	one	0.098" (2.498mm)
264 (Fire-Rated)	Laminate	both	0.030" (0.762mm)
266 (Fire-Rated)	Laminate	both	0.050" (1.270mm)
276	Aluminum	one	0.031" (0.787mm)

Typical Fire Test Data

High pressure decorative laminates are subject to flame spread and smoke developed standards in structures where codes establish such conditions. In these cases, phenolic backing sheets used with the decorative laminates are often covered by the same codes.

All work should be planned, fabricated and installed in conformity with specifications taken from applicable local fire codes.

Test data to determine compliance with these codes are obtained by the Steiner Tunnel Test method of the American Society for Testing Materials (ASTM-E-84, Standard Test Method for Surface Burning Characteristics of Building Materials). This procedure is cataloged by Underwriters Laboratories, Inc. as UL723.

Typical Flame Spread and Smoke Developed Properties*

WILSONART PRODUCT	BONDED TO	
	UNBONDED	BONDED TO INCOMBUSTIBLE CEMENT BOARD
264	15/0	15/0
266	20/0	15/0

*Adhesive to attain these data for bonded backing sheets is resorcinol. Fire-rated particle board is Duraflake, with a UL rating of 25/25, or comparable material. Refer to WILSONART Fire-Rated Decorative Laminates Tech Data for further information.

CC CODES AND CERTIFICATIONS

Specific Product Codes

U.S. Federal Specification L-P508H, April 9, 1977, "Plastic Sheets, Laminated, Decorative and Nondecorative" spells out criteria for decorative laminates and phenolic backing sheets for federal installations. Types 203, 204, 207, 208 and 209 comply with regulations for Style ND, Type IV, under this specification.

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

U.S. Coast Guard "Interior Finish" requirements. Fire-Rated Type 264 is approved through U.S.C.G. Certificate of Approval #164.012/46/0.

General Standards

WILSONART Brand Phenolic Laminate Backing Sheet Types 202, 203 and 207 conform to the relevant standards for BK20, BK30 and BK50 respectively, of the American National Standards Institute/National Electrical Manufacturers Association (ANSI/NEMA), LD3-1991, for thickness.

Since such backing sheets are designed for application to the unexposed backs of fabricated pieces, LD3-1991 sets no standards for performance properties or appearance on these products.

AC AVAILABILITY AND COST

WILSONART brand products are available from distribution centers throughout North America. A sales representative at the distribution center near you will be happy to provide cost information on any specific product for any specific project.

Each distribution center has trained personnel who are familiar with all WILSONART brand products. Specific technical consultation is also available from the Product Quality Department in Temple, Texas. Specific design and color consultation is available from your area architectural design specialist.

Complete product literature and samples are available from your area sales representative or distributor.

Limited Warranty

RALPH WILSON PLASTICS COMPANY warrants that, under normal use and service, the material and workmanship of its products shall conform to the standards set forth on the applicable technical data sheets for a period of twelve (12) months from the date of sale to the first consumer purchaser. Dealers and distributors are provided with the technical data sheets which contain specific standards of performance for the products. In the event that a RALPH WILSON PLASTICS COMPANY product does not perform as warranted, the first consumer's sole remedy shall be limited to repair or replacement of all or any part of the product which is defective, at the manufacturer's sole discretion.

This warranty applies only to product:

1. In its original installation; and
2. Purchased by the first consumer purchaser.

This warranty is not transferable, and expires upon resale or transfer by the first consumer purchaser.

This warranty shall not apply to defects or damage arising from any of the following:

1. Accidents, abuse or misuse;
2. Exposure to extreme temperature;
3. Improper fabrication or installation; or
4. Improper maintenance.

NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE MADE. UNDER NO CIRCUMSTANCES SHALL THE MANUFACTURER BE LIABLE FOR ANY LOSS OR DAMAGE ARISING FROM THE PURCHASE, USE, OR INABILITY TO USE THIS PRODUCT, OR FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. NO FABRICATOR, INSTALLER, DEALER, AGENT OR EMPLOYEE OF RALPH WILSON PLASTICS COMPANY HAS THE AUTHORITY TO MODIFY THE OBLIGATIONS OR LIMITATION OF THIS WARRANTY.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state; therefore, some of the limitations stated above may not apply to you. It is to your benefit to save your documentation upon purchase of a product.