

Wilsonart® Chalk Board Laminate Technical Data

1. Manufacturer

Wilsonart LLC
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2. Product Description

Recommended Uses: Wilsonart Chalk Board Laminate Type 137 is provided for surface applications requiring a durable, decorative surface for easy erasure of standard writing chalk for Vertical and Horizontal applications

Wilsonart Chalk Board Laminate is ideal for use in presentation areas, school classrooms, conference rooms, planning centers and offices.

- General Purpose Type 137 is also used where increased impact resistance for vertical surfaces is required.

Product Composition: Chalk Board Laminate is made with decorative surface papers that are impregnated with melamine resins and pressed over kraft paper core sheets impregnated with phenolic resin. Sheets are then bonded at pressures greater than 1000 pounds per square inch and at temperatures approaching 300°F (149°C). Finished sheets are trimmed and the backs sanded to facilitate bonding.

Basic Limitations: Wilsonart Chalk Board Laminate is for interior use only. It is not a structural material and must be bonded to a suitable substrate; see fabrication and installation instructions below in paragraph 4. Do not bond it directly to plaster, concrete walls or gypsum wallboard. Do not subject Wilsonart Laminate to extremes in humidity, temperatures over 275°F (135°C) for sustained periods of time, or intense, continuous, direct sunlight.

Colors:
4623, Graphite Nebula

No other patterns or colors are available in Wilsonart® Chalk Board Laminate. 3"x5" or 8"x10" samples are available for evaluation by calling 1-800-433-3222.

Finishes:
Only available in #38 Finish. The #38 finish facilitates easy removal of standard writing chalks.

Glossometer reading: MD and CD 6 ± 4.

NOTE: Glossometer readings are made at a 60° angle of incidence. MD means the machine direction of a laminate sheet, and CD refers to the cross direction.

Sheet Sizes:

48" x 96" (1219.2mm x 2438.4mm)

Sheet Thicknesses:

	Typical Wilsonart Thickness	NEMA Thickness	Weight PSF
General Purpose Type 137 (HGS)	0.048" ± 0.005" (1.22mm± 0.13mm)	0.048" ± 0.005" (1.2mm± 0.12mm)	0.322#

3. Technical Data

Physical Properties of Chalk Board Laminate

NEMA Test	Typical Wilsonart Type 137 Value	NEMA Standard* HGS	NEMA Standard* VGP	NEMA Standard* HGF
Thickness	0.044" (0.71mm)	0.048" ± 0.005" (1.2mm ± 0.12mm)	0.028" ± 0.004" (0.7mm ± 0.10mm)	0.048" ± 0.005" (1.2mm ± 0.12mm)
Surface Wear Resistance (cycles)	1650	400 (min.)	400 (min.)	400 (min.)
Boiling Water Resistance	No effect	No effect	Slight effect	No effect
High Temperature Resistance	No effect	Slight effect	Slight effect	Slight effect
Radiant Heat Resistance	100 seconds	125 sec. (min.)	80 seconds (min.)	75 seconds (min.)
Stain Resistance Reagents 1-10	No effect	No effect	No effect	No effect
Reagents 11-15	No effect	Moderate effect	Moderate effect	Moderate effect
Light Resistance	Slight effect	Slight effect	Slight effect	Slight effect
Dimensional Stability Machine Direction	0.250%	0.5% max.	1.1% max.	0.5% max.
Cross Direction	0.6%	0.9% max.	1.4% max.	0.9% max.
Impact Resistance	40" (1016mm)	50" (1270mm)	20" (508mm)	45" (1143mm)
Cleanability (cycles)	13	20 (max.)	20 (max.)	20 (max.)
Appearance	No ABC defects	No ABC defects	No ABC defects	No ABC defects

*Chalk Board Laminate is not specifically covered in ANSI/NEMA LD3-2005 standards. However, the physical properties of this product conform closely to specifications listed in standards.

Typical Fire Test Data

The “Chalk Board Laminate is fire-rated and the ratings are obtained by the Steiner Tunnel Test method of the American Society for Testing Materials (ASTM-E-84, Standard Testing Method for Surface Burning Characteristics of Building Materials). This procedure is cataloged by Underwriters Laboratories, Inc. as UL 723.

Typical Flame Spread and Smoke Developed Properties

Wilsonart Product	Flame Spread	Smoke Developed
137	90	40

Note: Independent test conducted on unsupported laminate.

Model Code Designations used to determine flame spread classification

Flame Spread Classification (Maximum Rating)	International (IBC)	Life Safety (NFPA 101)
25	A	A
75	B	B
200	C	C

(Reference: Architectural Woodwork Quality Standard, 8th Edition, Version 1.0 - 2003)

All Model Codes regulate the generation of smoke by interior finish material. In all cases they specify a maximum smoke development rating of 450.

Codes and Certifications: “Building codes for Chalk Board Laminates have not been determined at this time. Please consult with local authorities regarding any applicable codes for such products in your area. Code compliances have not yet been determined for finished installation of this state-of-the-art decorative laminate. You are urged to consult with product manufacturers and applicable code authorities in your choices of adhesive, substrate and design for end applications.

General Standards:

Wilsonart Laminates conform to the voluntary standards of the American National Standards Institute/National Electrical Manufacturers Association (ANSI/NEMA) LD3-2005, for thickness, performance properties and appearance. Various grades of Wilsonart Laminates meet or exceed the International Standards Organization specifications as found in ISO 4586, titled, “High-Pressure Decorative Laminate (HPDL) - Sheets Based on Thermosetting Resins - Part I: Specifications..

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.

Specific Product Standards:

U.S. Federal Specification L-P 508H, April 9, 1977, “Plastic Sheets, Laminated, Decorative and Non-decorative,” spells out criteria for decorative laminates for federal installations.

4. Installation: Fabrication and Assembly Recommendations

Fabrication should follow approved methods. Assembled pieces should meet the specification of KCMA (Kitchen Cabinetmakers Manufacturers Association), ANSI A-161.2-1998 (revised), and "Architectural Woodwork Quality Standards, Guide Specifications and Quality Certification Program" guidelines of the Architectural Woodwork Institute where applicable.

Wilsonart Chalk Board Laminate must be bonded to a substrate of reliable quality, such as particleboard, medium density fiberboard or plywood with one A face. High-pressure laminate, plaster, concrete and gypsum board should not be considered suitable substrates. Chalk Board Laminate may not be used as structural members.

Bond with proper adhesives and follow the techniques recommended by the adhesive manufacturer. Recommended adhesives are permanent types, such as urea and polyvinyl acetate (PVA), and contact types. Wilsonart adhesives are recommended for most bonding conditions.

To avoid stress cracking, do not use square-cut inside corners. All inside corners should have a minimum of 1/8" (3.175mm) radius and all edges should be routed smooth.

Drill oversized holes for screws or bolts. Screws or bolts should be slightly countersunk into the face side of a laminate-clad substrate.

Take care to ensure an appropriate acclimation between the laminate and the substrate prior to fabrication. The face and backing laminates and the substrate should be conditioned in the same environment for 48 hours before fabrication.

Recommended conditioning temperature is about 75°F (24°C). Laminates should be conditioned at 45% to 55% relative humidity.

Carbide-tipped saw and router blades should be used for cutting. High tool speed and low feed speed are advisable. Cutting blades should be kept sharp. Use a hold-down to prevent any vibration.

NOTE: Chalk Board Laminate is shipped without protective film.

5. Warranty

Wilsonart LLC warrants to the original consumer purchaser for one (1) year after date of purchase ("Warranty Period") that, under normal use and service, Wilsonart® Laminate Sheets are free from manufacturing defects and conform to published specifications. This warranty applies only to a Wilsonart Laminate Sheet which has been installed in an interior application and remains installed at that location ("Warranted Product") and is extended only to, and may be enforced only by, the original consumer purchaser. THIS WARRANTY IS NOT TRANSFERABLE. This warranty is expressly conditioned upon submission of proof of date of purchase.

WHAT IS EXCLUDED:

This warranty shall not apply to 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 or repair.

WHAT WILSONART WILL DO IF YOUR CLAIM IS COVERED BY THIS WARRANTY

Wilsonart will provide, at no cost and with delivery prepaid, a Wilsonart® Laminate Sheet to replace the Warranted Product. Wilsonart will not pay for removal of the Warranted Product or for fabrication or installation of the replacement laminate or any other costs. No replacement under the warranty shall extend the Warranty Period.

Any replacement is limited to colors and styles of Wilsonart® Laminate Sheets available at the time of replacement. Exact color matches may not be possible. If the original color or style is no longer available, Wilsonart has the right to substitute another Wilsonart Laminate Sheet of equal or greater value than the Warranted Product.

WHAT YOU NEED TO DO

To make a claim under this warranty, you must contact the Wilsonart Warranty Center at the address listed below before the end of the Warranty Period. You must provide proof of date of purchase, photographs of the Warranted Product and access for inspection for warranty determination by a Wilsonart representative, and thereafter Wilsonart will provide you a determination on your claim.

Wilsonart
Warranty Center
2400 Wilson
Place
Temple, Texas 76504
877-537-0533... Toll Free

THE FOREGOING SHALL CONSTITUTE THE EXCLUSIVE REMEDY OF THE PURCHASER AND THE EXCLUSIVE LIABILITY OF WILSONART.

THE ABOVE WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED. NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY.

WILSONART SHALL NOT, UNDER ANY CIRCUMSTANCES OR UNDER ANY LEGAL THEORY, BE LIABLE TO THE PURCHASER OR ANY OTHER PERSON FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, INCLUDING WITHOUT LIMITATION DAMAGES TO, OR LOSS OF USE OF, PROPERTY, DAMAGES FOR LOSS OF PROFITS OR REVENUES OR ANY OTHER DAMAGES ARISING FROM THE ORIGINAL PURCHASER'S PURCHASE. WILSONART'S LIABILITY WILL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCT.

No agent, dealer, employee or representative of Wilsonart nor any installer, fabricator or other person is authorized to modify this warranty in any respect.

The invalidity of all or a part of any of the provisions of this Limited Warranty shall not affect or invalidate any other provision of this Limited Warranty.

Questions about this warranty may be directed to Wilsonart LLC, 3301 Center Street, P.O. Box 6110, Temple, TX 76503-6110 or visit our website at www.wilsonartlaminate.com.

6. Maintenance*

Standard Chalk is recommended for Wilsonart Chalk Board Laminate.

Wilsonart Chalk Board Laminate can be cleaned using a felt or multi-purpose chalkboard eraser. When additional cleaning is required, a soft cloth dampened with warm tap water and mild soaps, such as those used in the household for hands or dishes, is recommended. If stubborn stains persist, Chalk Board Laminate can be cleaned with spray-type glass cleaners, such as Windex[®], 409[®] Formula All-Purpose Cleaner, Isopropyl Alcohol or Zep[®] Write-Away Graffiti & Ink Remover. Hard-to-remove stains can be treated with a 2-minute exposure to hypochlorite bleach, such as Clorox[®], immediately followed by a clean water rinse.

DO NOT use cleansers that contain abrasives, acids, or alkalis, as they will damage the decorative surface.

We recommend that you **not** allow any of the following reagents to **remain** in contact with the decorative surface:

1. Hypochlorite bleach, except as described above
2. Hydrogen peroxide solution
3. Mineral acids, hydrochloric acid, such as Lime-A-Way[™], sulfuric or nitric acid
4. Caustic solutions containing greater than 2% lye, such as Drano[®]
5. Sodium bisulfate, such as Sani-Flush[®]
6. Potassium permanganate
7. Berry juices
8. Silver nitrate, in 1% concentration or greater
9. Gentian violet
10. Mild silver protein, such as 20% Argyrol
11. Bluing
12. Fabric dye, such as Tintex[®] or Rit[®]
13. Alcohol containing 1% iodine in solution

If you require a decorative laminate that can withstand these and other chemicals, please refer to the Tech Data for Wilsonart[®] Chemsurf[®] Chemical-Resistant Laminates.

Free copies of the "Care and Maintenance Guide," which covers all Wilsonart products, are available. The guide can be accessed at <http://www.wilsonart.com> or by calling our hotline at: 800-433-3222. It can be used for your own information, for project manuals, and for provision to clients and contractors involved with interior construction and finishing.

*Not applicable for Phenolic Laminate Backing Sheet.

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.

Specification Form:

Surface shall be Wilsonart® Chalk Board Laminate, produced by Wilsonart LLC, Temple, Texas 76503-6110.	
Type:	Specify 137
Surface	
Pattern Number:	4623
Pattern Name:	Graphite Nebula,
Finish Number:	38
Name:	_____
Edge Trim	
Pattern Number:	_____
Pattern Name:	_____
Adhesive	
Name:	_____
Grade/Type:	_____
Brand:	Wilsonart Adhesive
Material shall equal or exceed performance standards set by the American National Standards Institute/National Electrical Manufacturers Association (ANSI/NEMA) LD3-2005 for high-pressure laminate. Fabrication shall comply with "Architectural Woodwork Quality Standards, Guide Specifications and Quality Certification Program" guidelines of the Architectural Woodwork Institute.	

Chalkboard (TD1366)
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