

## 1. Manufacturer

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## 2. Product Description

### **Recommended Uses**

Wilsonart® Markerboard Laminate Type 136, is provided for the special needs of applications requiring a durable, gloss decorative surface that ensures easy erasure of dry erase markers.

Wilsonart Markerboard Laminate is ideal for applications where liquid chalk is to be used, including presentation areas, schools, conference rooms, planning centers and offices.

General Purpose Type 136 is the usual choice where increased impact resistance for vertical surfaces is required.

### **Product Composition**

Markerboard Laminate is constructed from decorative surface papers that are impregnated with melamine resins and pressed over kraft paper core sheets impregnated with phenolic resin. The melamine resin facilitates liquid chalk removal. 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**

Markerboard Laminate is for interior use only and is not recommended for direct application to plaster, concrete walls or gypsum wallboard. It is not structural material and must be bonded to a suitable substrate.

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**

1572, 1573 and 1595

No other patterns or colors are available as Wilsonart Markerboard Laminate.

3"x5" or 8"x10" samples are available for evaluation by calling 1-800-433-3222.

### **Finishes**

#9 Gloss ONLY

A smooth gloss finish that facilitates easy removal of dry erase markers.

*Glossometer reading: MD and CD 110 ± 10.*

*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)
48" x 144" (1219.2mm x 3657.6mm)

### Sheet Thicknesses

	Typical Wilsonart Thickness	NEMA Thickness	Weight PSF
<b>General Purpose Type 136 (HGS)</b>	0.048" $\pm$ 0.005" (1.22mm $\pm$ 0.13mm)	0.048" $\pm$ 0.005" (1.2mm $\pm$ 0.12mm)	0.322#

## 3. Technical Data

### Physical Properties of Markerboard Laminate

NEMA Test	Typical Wilsonart Type 136 Value	NEMA Standard* HGS	NEMA Standard* HGF	ISO 4586-3 HGS
<b>Thickness</b>	<b>0.048" (1.22mm)</b>	0.048" $\pm$ 0.005" (1.2mm $\pm$ 0.12mm)	0.048" $\pm$ 0.005" (1.2mm $\pm$ 0.12mm)	0.048" $\pm$ 0.005" (1.2mm $\pm$ 0.12mm)
<b>Surface Wear Resistance (cycles)</b>	<b>700</b>	400 (min.)	400 (min.)	350 (min.)
<b>Boiling Water Resistance</b>	No effect	No effect	No effect	Slight Effect (Gloss) No Effect (Other Finishes)
<b>High Temperature Resistance</b>	No effect	Slight effect	Slight effect	Slight Effect (Gloss) No Effect (Other Finishes)
<b>Radiant Heat Resistance</b>	<b>150 seconds</b>	125 sec. (min.)	75 secs. (min.)	$\geq$ 200 sec.
<b>Stain Resistance</b> Reagents 1-10 Reagents 11-15	No effect No effect	No effect Moderate effect	No effect Moderate effect	No effect Moderate effect
<b>Light Resistance</b>	Slight effect	Slight effect	Slight effect	Slight effect
<b>Dimensional Stability</b> Machine Direction Cross Direction	<b>0.3%</b> <b>0.7%</b>	0.5% max. 0.9% max.	0.5% max. 0.9% max.	1.1% (max.) 1.4% (max.)
<b>Impact Resistance</b>	<b>65" (1651mm)</b>	50" (1270mm)	45" (1143mm)	31.5" (800mm)
<b>Cleanability (cycles)</b>	<b>10</b>	20 (max.)	20 (max.)	10
<b>Appearance</b>	No ABC defects	No ABC defects	No ABC defects	No ABC defects

\*Markerboard 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

Test data for Markerboard Fire-Rated Laminate 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
<b>136</b>	65	115

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, 8<sup>th</sup> 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**

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 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](http://www.greenguard.org).

**Specific Product Standards**

U.S. Federal Specification L-P 508H, April 9, 1977, "Plastic Sheets, Laminated, Decorative and Nondecorative," 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 Markerboard 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. Markerboard Laminate may not be used as structural members.

Bond with 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: Markerboard Laminate is shipped without protective film.

5. [Warranty](#)

6. [Maintenance](#)

Quartet® and Expo® Dry Erase Markers are recommended for Wilsonart Markerboard Laminate.

Wilsonart Markerboard Laminate can be cleaned using a felt or multi-purpose board eraser. When additional cleaning is required, a soft cloth dampened with warm tap water and mild soaps, such as those used for hands or dishes, are recommended. If stubborn stains persist, Markerboard 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.

Various whiteboard cleaners and conditioners, such as Quartet, Expo, or Windex, available through local office supply stores, are excellent products for thorough cleaning. Remember to clean erasers often by wiping to remove dry-erase marker residue.

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® Markerboard Laminate, produced by Wilsonart LLC, Temple, Texas 76503-6110.

Type: Specify 136

Surface

Pattern Number: 1572, 1573, or 1595

Pattern Name: Antique White, Frosty White, or Black

Finish

Number: \_\_\_\_\_ 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.

Wilsonart® Markerboard Laminate Technical Data

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