

1. **Manufacturer**

Wilsonart LLC
2501 Wilsonart Drive
P.O. Box 6110
Temple, Texas 76503-6110
Phone: (254) 207-7000; (800) 433-3222
Fax: (254) 207-2384
Web Site: www.wilsonart.com

2. **Product Description**

Recommended Uses

Wilsonart® Laminate, type 138, is suitable for use on retail, office furniture, manufactured housing, hospitality, casework, countertops, and interior doors and also for architectural application on wainscoting, valances, and divider systems.

- **Type 138** Common applications are for counters, desktops, cabinet doors and drawer panels. Type 138 is intended for use on vertical and horizontal interior surfaces.

Product Composition

Decorative surface papers impregnated with resins that are pressed over kraft paper core sheets impregnated with phenolic resin. These sheets are then bonded at pressures greater than 1000 pounds per square inch at temperatures approaching 300°F (149°C). Finished sheets are trimmed, and the backs are sanded to facilitate bonding.

Basic Limitations

Wilsonart Traceless 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. Traceless Laminate is a non-post formable product.

Do not subject Wilsonart Laminate to extremes in humidity, temperatures higher than 275°F (135°C) for substantial periods of time, or intense, continuous, direct sunlight.

Patterns & Colors

Available in the following Wilsonart colors: 15501, 15502, 15503, 15504 and 15505. See all patterns and colors at www.wilsonart.com. Please see actual sample before specifying.

Finish Availability

#31 Traceless Finish

- A smooth textured finish with moderate reflective value.
Glossometer reading: Nominal MD and CD - 2.5
#31 is designated for Wilsonart Traceless Laminate only.

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

Standard Sheet Widths

48"
1219mm

Standard Sheet Lengths

96"	120"
2438mm	3048mm

Thickness and Weight

Description	138
Thickness	0.039" ± 0.005" (0.99mm ± 0.13mm)
Weight per square foot	0.260#

3. Technical Data

Physical Properties of Traceless Laminates

ISO 4586 Test	Typical Wilsonart Type 138	ISO 4586-8
Thickness	0.039" ± 0.005" (0.99mm ± 0.13mm)	0.039" ± 0.005" (1mm ± 0.12mm)
Appearance	No ABC def.	Not applicable.
Light Resistance	Slight effect	Slight effect
Cleanability (cycles)	20	20
Stain Resistance Reagents 1-10 Reagents 11-15	No effect Slight effect (Light colors)	No effect Moderate effect
Boiling Water Resistance	No Effect	Slight Effect (Gloss) No Effect (Other Finishes)
High Temperature Resistance	No Effect	Slight Effect (Gloss) No Effect (Other Finishes)
Impact Resistance	45" (1143mm)	31.5" (800mm)
Radiant Heat Resistance	235 seconds	≥ 200 sec.
Dimensional Stability (Elevated) Machine Direction Cross Direction	0.3% 0.7%	0.55% (max.) 0.95% (max.)
Dimensional Stability (Ambient) Machine Direction Cross Direction	0.3% 0.7%	0.50% (max.) 0.90% (max.)
Surface Wear Resistance (cycles)	Meets or Exceeds 350 cycles	350 (min.)
Formability*	Not applicable	Not Applicable

Typical Fire Test Data

High-pressure laminates are subject to Flame Spread and Smoke Developed standards in structures where codes establish such conditions.

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). Tests were conducted in accordance with test method and mounting procedure as described in paragraph X1.7.2 of the test method. This procedure is cataloged by Underwriters Laboratories, Inc. as UL 723.

Typical Flame Spread and Smoke Developed Properties

Product Type	Test Condition	Flame Spread	Smoke Developed
Type 138	Unbonded	80	60

Model Code Designations used to determine flame spread classification

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

RE: 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

General Standards

Wilsonart Laminates, type 138, conforms to the voluntary standards of the American National Standards Institute, for thickness, performance properties and appearance. Wilsonart Laminate 138 meets or exceed the International Standards Organization specifications as found in ISO 4586-8, titled “High-Pressure Decorative Laminate (HPDL) – Sheets Based on Thermosetting Resins – Part I: specifications.”

Specific Product Standards

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.

All patterns meet SEFA 8-PL testing requirements

4. Installation: Fabrication and Assembly Recommendations

Fabrication should follow approved methods. Assembled pieces should meet the specifications 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 laminates 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. Basic Types 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.

5. [Warranty](#)

6. [Maintenance](#)

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® Traceless Laminate, produced by Wilsonart LLC, Temple, Texas 76503-6110	
Type: Specify 138	
Surface	
Color Number: _____	Color Name: _____
Finish	
Number: _____	Name: _____
Edge Trim	
Color Number: _____	Color Name: _____
Adhesive	
Name: _____	Grade/Type: _____
Brand: Wilsonart® Adhesive	

Wilsonart® Traceless Laminate Technical Data
Type 138
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