

Wilsonart® SR605 Fire-Rated Laminate

Technical Data

1. Manufacturer

Wilsonart International
2400 Wilson Place
P.O. Box 6110
Temple, Texas 76503-6110
Phone: (254) 207-7000; (800) 433-3222
Fax: (254) 207-2384
Web Site: www.wilsonartlaminates.com

2. Product Description

Recommended Uses: SR605 Fire-Rated Laminate is recommended for interior surfacing on computer floors in commercial and military applications where fire codes specify or the environment suggests a fire-resistant and smoke-resistant surface.

It may be applied as decorative surfacing for commercial computer room floors, marine computer floors (false decks), telephone facilities, hospitals, laboratories, institutional bleacher seating, elevator flooring, ambulance flooring, decorative chair pads, clean room floors, operating room floors, and other heavy traffic areas. This laminate with the added benefit of an extra-wear surface provides a high resistance to scuffing, cigarette burns, and heel marks. The material also has a skid resistant surface. SR605 Fire-Rated Laminate can offer a Class I or A fire rating, provided fire-retardant adhesives and substrates are used.

- General Purpose (HGF) Type SR605: Produced for both horizontal and vertical applications where the surface must perform under constant use.

NOTE: Fire-Rated Backer Type 266 is recommended as a stabilizing backer sheet for applications where the decorative surface is General Purpose Type SR605.

Product Composition: The decorative surface is composed of high-wear melamine resin-treated decorative surface papers. Special kraft core sheets, used to obtain the desired thickness, are impregnated with phenolic resin.

Basic Limitations: Wilsonart Laminate is intended for interior use only, and should be protected from continuous exposure to direct sunlight, extremes in humidity and temperatures greater than 275°F (135°C). It is not structural material and must be bonded to a suitable substrate.

Wilsonart Laminate should not be used as direct covering for plaster or concrete walls, or for gypsum wallboard. It should not be exposed to flame, molten metal, metallic sparks or intense, direct sunlight. Nor should it be used as a cutting surface.

Pattern and Color Availability:

Wilsonart Fire-Rated SR605 Laminate is available in the patterns listed below.

D328 – Larkspur	Order as: D328S-60-605
4552 – Ebony Star	Order as: 4552S-60-605

Finishes:

- 60 Matte
A textured finish with a moderate reflective quality. *Glossometer reading: MD and CD*
 10 ± 2 .

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"	(1219mm x 2438mm)
48" x 120"	(1219mm x 3048mm)

Sheet Thicknesses

Type	Typical Wilsonart Thickness	NEMA Thickness	Weight PSF
General Purpose Type SR605 (HGF)	0.048" ± 0.005" (1.22mm ± 0.13mm)	0.048" ± 0.005" (1.2mm ± 0.12mm)	0.438#

NOTE: Minimum sheet order requirements: 2 sheets by size and pattern.

3. Technical Data

Physical Properties of Fire-Rated Laminate

NEMA Test	Typical Wilsonart Type SR605 (HGF)	NEMA Standard HGF
Surface Wear Resistance (cycles)	5,000	3,000 (min.)
Boiling Water Resistance	No effect	No effect
High Temperature Resistance	No effect	Slight effect
Stain Resistance Reagents 1-10 Reagents 11-15	No effect Slight effect	No effect Moderate effect
Dimensional Stability Machine Direction Cross Direction	0.18% 0.67%	0.50% (max.) 0.90% (max.)
Impact Resistance	40" (1016mm)	35" (889mm)
Cleanability (cycles)	15	25 (max.)
Appearance	No ABC defects	No ABC defects

Note: Since Fire-Rated backer sheets are not intended to be exposed to light, wear or everyday use, no physical property tests are in current use.

Typical Coefficient of Friction Test Data

Test data for Wilsonart SR605 Fire-Rated Laminate is obtained by the American Society for Testing Materials (ASTM C 1028, Determining the Static Coefficient of Ceramic Tile and Other like Surfaces by the Horizontal Dynamometer Pull-Meter method.

NEMA Type	Wilsonart Product	Dry Test Conditions Results	Wet Test Conditions Results
HGF	SR605	0.69	0.65

NOTE: A coefficient of friction value of 0.5 or greater is generally accepted for classifying a walking surface as slip resistant.

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

Fire-Rated Laminate meets the following federal codes:

Aircraft Interiors. U.S. Federal Test Method, Federal Aviation Administration, DOT, Part 25.853, Airworthiness Standards: Transport Category Airplane (Interior Finish). Fire-Rated Laminate Types 604, 605 and 607 comply with parts A and C.

Military/Ships. U.S. Military Standard MIL-P-17171E (SHIPS) Plastic Laminate and U.S. Military Standard 1623D (SHIPS), "Fire Performance Requirements and Approval Specifications for Interior Finished Materials and Furnishings - Naval Shipboard Use." Fire-Rated Laminate Types 605 and 607 comply with both of these standards.

Military/Ships

Fire-Rated Product Type	U.S.C.G. (46 CFR 164.012)	U.S.C.G. (IMO FTP Code)	Canadian Board of Steamship Inspection
Type SR605	164.012/105/0	164.112/9/0	G1-166

Type 605 also appears on the U.S. Department of the Navy "Approved Habitability Materials List 9640, SER 05M1.11/1148," (Revision K, May 1996), Pages 3 and 4, paragraphs 1.5 and 2(b), for use on bulkhead sheathing, and on NAVSEA Drawing #804-5000991.

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 604, 605, 607, 264 and 266 comply.

Motor Vehicles/Interiors

U.S. Federal Motor Vehicle Safety Standard (FMVSS) 302, "Flammability of Interior Materials." Fire-Rated Laminate Types 604, 605 and 607 comply.

4. Installation: Fabrication and Assembly Recommendations

Wilsonart® SR605 is designed for application to oil-free Nomex honeycomb, aluminum honeycomb, plywood, steel, or particleboard computer floor sections with a moisture-resistant adhesive in accordance with the adhesive manufacturer's recommendations. Bonding to a Nomex honeycomb core requires the use of a MIL-approved adhesive.

Contact the computer floor system installer and/or Nomex panel manufacturer for the thickness of computer floor laminates required and further installation instructions.

Take care to ensure an appropriate moisture balance 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.

To avoid stress cracking, do not use square-cut inside corners. All inside corners should have a minimum of 1/8" (3.18mm) radius, and all edges should be routed smooth.

5. Warranty

Wilsonart International, Inc. ("Wilsonart") 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. ANY IMPLIED WARRANTIES WHICH MAY ARISE BY OPERATION OF LAW, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE PERIOD OF THE WRITTEN WARRANTY SET FORTH HEREIN.

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 PURCHASE. WILSONART'S LIABILITY WILL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE WILSONART® PRODUCT.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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

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

For further assistance or questions, contact Wilsonart at the address or telephone number listed above or at www.wilsonart.com.

6. Maintenance*

The decorative surface may be cleaned with warm water and mild soaps, such as those used for hands or dishes. Do not use cleansers that contain abrasives, acids or alkalis; they will damage the decorative surface. Remove stubborn stains with a 1 1/2-minute exposure to hypochlorite bleach such as Clorox®, followed by a clean water rinse.

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
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 laminate that can withstand these and other chemicals, please refer to the tech data for Wilsonart® Chemsurf® Chemical-Resistant Laminates.

*Not applicable for Phenolic Laminate Backing Sheets.

Free copies of the "Care and Maintenance Guide," which covers all Wilsonart products, are available. The guide can be accessed at <http://www.wilsonartlaminate.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.

7. 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.

Specification Form:

Surface shall be Wilsonart Laminate,
produced by Wilsonart International,
Temple, Texas 76503-6110.

Type: See Fire-Rated specific types under Product
Description/Product Definition

Surface

Color Number: _____
Color Name: _____

Finish

Number: _____
Name: _____

Edge Trim

Color Number: _____
Color 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.*

Fire Rated TD (TD0100)

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