

1. **Manufacturer**

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2. **Product Description**

Recommended Uses

Wilsonart® 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:

4552 – Ebony Star	Order as: 4552S-60-605
4810 – Titanium EV	Order as: 4810S-60-605
4630 – Cloud Nebula	Order as: 4630S-60-605

Finishes

- 60 Matte - A textured finish with a moderate reflective quality.
Nominal Glossometer Reading = 10

NOTE: Nominal Glossometer Readings are made at a 60° angle of incidence.

Sheet Sizes

48" x 96"	(1219mm x 2438mm)
48" x 120"	(1219mm x 3048mm)

Sheet Thicknesses

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

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

3. Technical Data

Physical Properties of SR605 Fire-Rated Laminate

ISO 4586 Test	Typical Wilsonart Type SR605 (HGF)	ISO 4586-3 HGF
Surface Wear Resistance (cycles)	5,000	1000 (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%	1.1% (max.) 1.4% (max.)
Impact Resistance	40" (1016mm)	31.5" (800mm)
Cleanability (cycles)	15	10
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.

Typical Fire Test Data

Test data for Wilsonart SR605 Fire-Rated Laminate is 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 UL 723.

Typical Flame Spread and Smoke Developed Properties

NEMA Type	Wilsonart Product	Unbonded	Bonded to Incombustible Cement Board	Bonded to Fire-Rated Particleboard
HGF	SR605	15/15	15/0	15/25

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 of 25/25, or comparable material. The above values are CUL approved.

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 Standards, 1st Edition, Version 1.0 – 2009

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

4. Codes and Certifications

General Fire Code Compliance

Test data for code compliance is from the UL 723 Tunnel Test method. This procedure has been cataloged under the following designations:

American Society for Testing Materials	ASTM E 84
American National Standards Institute	ANSI No. 2.5
National Fire Protection Agency	NFPA No. 255
Underwriters Laboratories, Inc.	UL No. 723

This test data is the basis for fire codes written by various responsible groups, including:

BBC	Basic Building Code (Building Officials Conference of America. Used in Midwest and Northeast.)
NFPA	National Fire Protection Agency (Building Exits Code, Section #101.)
SSBC	Southern Standards Building Code (Southern Building Codes Congress. Used primarily in the South.

Many local codes, especially in densely populated areas, have been patterned after these. Examples include the cities of Los Angeles and San Francisco and the Port Authority of New York. Approvals include:

New York City, Department of Buildings, Materials and Equipment Acceptance (Types 264, 266, 604, 605 & 607)	MEA 167-87M
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General Standards

Fire-Rated Laminate conforms to ANSI/NEMA LD3-2005 for HGF (Type SR605).

* Wilsonart Laminate SR605 meets or exceeds the International Standards Organization specifications as found in ISO 4586, titled “High-Pressure Decorative Laminate (HPDL) – Sheets Based on Thermosetting Resins – Part 5: specifications.” Wilsonart laminate SR605 conforms to the ISO 10874:2012 classification for flooring grade laminates with an AC class 3 rating.

The UL 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

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.

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.

5. Installation: Fabrication and Assembly Recommendations

Wilsonart® SR605 Fire-Rated Laminate 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.

6. [Warranty](#)

7. [Maintenance](#)

8. **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® SR605 Fire-Rated Laminate, produced by Wilsonart LLC, 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.	

Wilsonart® SR605 Fire Rated Laminate Technical Data

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