Wilsonart® SR605 Fire-Rated Laminate
Technical Data

1. Manufacturer

Wilsonart LLC
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.wilsonartlaminate.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.

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Order as</th>
</tr>
</thead>
<tbody>
<tr>
<td>D328 – Larkspur</td>
<td>D328S-60-605</td>
</tr>
<tr>
<td>4552 – Ebony Star</td>
<td>4552S-60-605</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Sheet Size</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>48” x 96”</td>
<td>(1219mm x 2438mm)</td>
</tr>
<tr>
<td>48” x 120”</td>
<td>(1219mm x 3048mm)</td>
</tr>
</tbody>
</table>

Sheet Thicknesses

<table>
<thead>
<tr>
<th>Type</th>
<th>Typical Wilsonart Thickness</th>
<th>NEMA Thickness</th>
<th>Weight PSF</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Purpose Type SR605 (HGF)</td>
<td>0.048” ± 0.005&quot; (1.22mm ± 0.13mm)</td>
<td>0.048” ± 0.005&quot; (1.2mm ± 0.12mm)</td>
<td>0.438#</td>
</tr>
</tbody>
</table>

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

3. Technical Data

Physical Properties of Fire-Rated Laminate

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

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.

<table>
<thead>
<tr>
<th>NEMA Type</th>
<th>Wilsonart Product</th>
<th>Dry Test Conditions Results</th>
<th>Wet Test Conditions Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGF</td>
<td>SR605</td>
<td>0.69</td>
<td>0.65</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>NEMA Type</th>
<th>Wilsonart Product</th>
<th>Unbonded</th>
<th>Bonded to Incombustible Cement Board</th>
<th>Bonded to Fire-Rated Particleboard</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGF</td>
<td>SR605</td>
<td>15/15</td>
<td>15/0</td>
<td>15/25</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Flame Spread Classification (Maximum Rating)</th>
<th>International (IBC)</th>
<th>Life Safety (NFPA 101)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>75</td>
<td>B</td>
<td>B</td>
</tr>
<tr>
<td>200</td>
<td>C</td>
<td>C</td>
</tr>
</tbody>
</table>


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 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

General Standards
Fire-Rated Laminate conforms to ANSI/NEMA LD3-2005 for HGF (Type SR605).
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
Fire-Rated Laminate meets the following federal codes:


Military/Ships

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Type SR605</td>
<td>164.012/105/0</td>
<td>164.112/9/0</td>
<td>G1-166</td>
</tr>
</tbody>
</table>

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

Motor Vehicles/Interiors

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 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. 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](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, 8 am –5 pm, CST.
Surface shall be Wilsonart Laminate, produced by Wilsonart LLC, Temple, Texas 76503-6110.

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

<table>
<thead>
<tr>
<th>Surface</th>
<th>Color Number: ___________</th>
<th>Color Name: ___________</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finish</td>
<td>Number: ___________</td>
<td>Name: ___________</td>
</tr>
<tr>
<td>Edge Trim</td>
<td>Color Number: ___________</td>
<td>Color Name: ___________</td>
</tr>
<tr>
<td>Adhesive</td>
<td>Name: ___________</td>
<td>Grade/Type: ___________</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Brand: Wilsonart Adhesive</td>
</tr>
</tbody>
</table>