



AMERICAN CRAFTSMAN WINDOW AND DOOR NFRC/ENERGY STAR INFORMATION

This document provides NFRC certified U-Factor and Solar Heat Gain Coefficient (SHGC) and Visible Transmittance (VT) values for Silver Line® products along with the corresponding ENERGY STAR® Version 6.0 climate zones in which the product and glass type are certified.

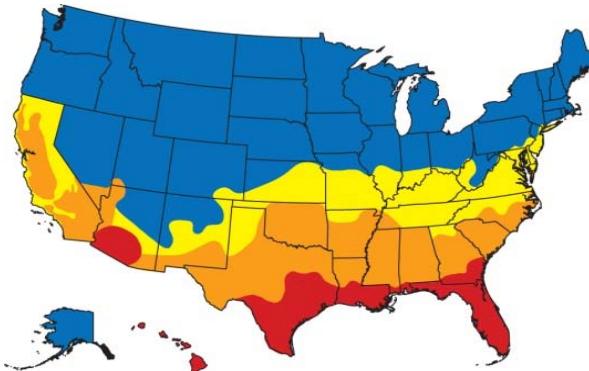


These products are rated, certified and labeled by the National Fenestration Rating Council® (NFRC) - a non-profit organization that provides fair, accurate and credible energy performance ratings for windows and doors.



Many of our products meet the stringent energy efficiency certification criteria set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. The certification criteria is based on the heat gain and loss of each product in various regions of the country. Check the Silver Line product performance available at www.silverlinewindows.com for units that are ENERGY STAR certified.

United States ENERGY STAR® Climate Zone Criteria



Northern

North-Central

South-Central

Southern

Windows

| Climate Zone | U-Factor ¹ | SHGC ² | |
|--------------|-----------------------|-------------------|-------------------------------|
| Northern* | ≤ 0.27 | Any | Prescriptive |
| | = 0.28 | ≥ 0.32 | Equivalent Energy Performance |
| | = 0.29 | ≥ 0.37 | |
| | = 0.30 | ≥ 0.42 | |

| | | | |
|---------------|--------|--------|--|
| North-Central | ≤ 0.30 | ≤ 0.40 | |
| South-Central | ≤ 0.30 | ≤ 0.25 | |
| Southern | ≤ 0.40 | ≤ 0.25 | |

Air Leakage ≤ 0.3 cfm/ft²

¹ Btu/h ft² F

² Solar Heat Gain Coefficient

* The effective date for the Northern Zone prescriptive and equivalent energy performance criteria for windows is January 1, 2016.

Doors

| Glazing Level | U-Factor ¹ | SHGC ² | |
|---------------|-----------------------|---------------------------|--------|
| Opaque | ≤ 0.17 | No Rating | |
| ≤ ½-Lite | ≤ 0.25 | ≤ 0.25 | |
| > ½-Lite | ≤ 0.30 | Northern North-Central | ≤ 0.40 |
| | | Southern South-Central | ≤ 0.25 |

Air Leakage for Sliding Doors ≤ 0.3 cfm/ft²

Air Leakage for Swinging Doors ≤ 0.5 cfm/ft²

¹U-Factor defines the amount of heat loss through the total unit in BTU/hr*ft²*F, metric in W/m²K. The lower the value, the less the heat is lost through the entire product.

²Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass both directly transmitted and absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the product.

³Visible Transmittance (VT) measures how much light comes through a product (glass and frame). The higher the value, from 0 to 1, the more daylight the product lets in over the product's total unit area. Visible Transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum.

NFRC ratings are based on modeling by a third party agency as validated by an independent test lab in compliance with NFRC program and procedural requirements.

This data is accurate as of October 1, 2018. Due to ongoing product changes, updated test results or new industry standards or requirements, this data may change over time. Due to variations in dealer and distributor inventory levels, products that were manufactured before October 1, 2018 that were designed, tested and labeled with different NFRC values may still be available. Check the labels on the product packaging to confirm NFRC values. Ratings are for sizes specified by NFRC for testing and certification. Ratings may vary depending on use of tempered glass, different grille options, glass for high altitude, etc.

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| American Craftsman Series | American Craftsman Product Type | Glass Type/Infill | Glass Thickness | Spacer | NFRC Certified Products Directory Number | No Grilles | | | | | | With Grilles | | | | | | | | |
|--------------------------------------|---------------------------------|-------------------|-----------------|-----------|--|------------|-------|------|------------------------|----|----|--------------|----------------|-----------|-------|------|------------------------|----|----|---|
| | | | | | | U-Factor1 | SHGC2 | VLT3 | U.S. ENERGY STAR v 6.0 | | | | Spacer W/ Grid | U-Factor1 | SHGC2 | VLT3 | U.S. ENERGY STAR v 6.0 | | | |
| | | | | | | | | | North | NC | SC | South | | | | | | | | |
| 70 Series Double-Hung Impact | Double-Hung Impact Windows | Clear/Air | Lami/3.0mm | Intercept | SIL-N-33 | 0.47 | 0.56 | 0.61 | - | - | - | - | Intercept | 0.47 | 0.50 | 0.55 | - | - | - | - |
| | | Low-E/Air | Lami/3.0mm | Intercept | | 0.35 | 0.28 | 0.52 | - | - | - | - | Intercept | 0.35 | 0.25 | 0.46 | - | - | - | S |
| | | Low-E/Argon | Lami/3.0mm | Intercept | | 0.31 | 0.28 | 0.52 | - | - | - | - | Intercept | 0.31 | 0.25 | 0.46 | - | - | - | S |
| | | Low-E 3/Air | Lami/3.0mm | Intercept | | 0.34 | 0.24 | 0.47 | - | - | - | - | S | 0.34 | 0.22 | 0.42 | - | - | - | S |
| | | Low-E 3/Argon | Lami/3.0mm | Intercept | | 0.31 | 0.24 | 0.47 | - | - | - | - | S | 0.31 | 0.22 | 0.42 | - | - | - | S |
| | | Low-E LSC/Air | Lami/3.0mm | Intercept | | 0.34 | 0.22 | 0.41 | - | - | - | - | S | 0.34 | 0.20 | 0.36 | - | - | - | S |
| | | Low-E LSC/Argon | Lami/3.0mm | Intercept | | 0.31 | 0.21 | 0.41 | - | - | - | - | S | 0.31 | 0.19 | 0.36 | - | - | - | S |
| 70 Series Impact Patio Door | Impact Patio Doors | Clear/Air | Lami/3.0mm Temp | Intercept | SIL-N-36 | 0.44 | 0.60 | 0.65 | - | - | - | - | Intercept | 0.44 | 0.53 | 0.57 | - | - | - | - |
| | | Low-E/Air | Lami/3.0mm Temp | Intercept | | 0.31 | 0.29 | 0.55 | - | - | - | - | Intercept | 0.31 | 0.26 | 0.49 | - | - | - | - |
| | | Low-E/Argon | Lami/3.0mm Temp | Intercept | | 0.28 | 0.29 | 0.55 | N | NC | - | - | Intercept | 0.28 | 0.26 | 0.49 | N | NC | - | - |
| | | Low-E 3/Air | Lami/3.0mm Temp | Intercept | | 0.31 | 0.25 | 0.50 | - | - | - | - | Intercept | 0.31 | 0.23 | 0.44 | - | - | - | - |
| | | Low-E 3/Argon | Lami/3.0mm Temp | Intercept | | 0.28 | 0.25 | 0.50 | N | NC | SC | S | Intercept | 0.28 | 0.22 | 0.44 | N | NC | SC | S |
| | | Low-E LSC/Air | Lami/3.0mm Temp | Intercept | | 0.31 | 0.23 | 0.43 | - | - | - | - | Intercept | 0.31 | 0.20 | 0.38 | - | - | - | - |
| | | Low-E LSC/Argon | Lami/3.0mm Temp | Intercept | | 0.27 | 0.22 | 0.43 | N | NC | SC | S | Intercept | 0.27 | 0.20 | 0.38 | N | NC | SC | S |
| 70 Series Replacement Gliding Impact | Gliding Impact Windows | Clear/Air | Lami/3.0mm | Intercept | SIL-N-10 | 0.47 | 0.55 | 0.61 | - | - | - | - | Intercept | 0.47 | 0.50 | 0.54 | - | - | - | - |
| | | Low-E/Air | Lami/3.0mm | Intercept | | 0.35 | 0.28 | 0.51 | - | - | - | - | Intercept | 0.35 | 0.25 | 0.46 | - | - | - | S |
| | | Low-E/Argon | Lami/3.0mm | Intercept | | 0.31 | 0.27 | 0.51 | - | - | - | - | Intercept | 0.31 | 0.25 | 0.46 | - | - | - | S |
| | | Low-E 3/Air | Lami/3.0mm | Intercept | | 0.35 | 0.24 | 0.47 | - | - | - | - | S | 0.35 | 0.22 | 0.42 | - | - | - | S |
| | | Low-E 3/Argon | Lami/3.0mm | Intercept | | 0.31 | 0.24 | 0.47 | - | - | - | - | S | 0.31 | 0.21 | 0.42 | - | - | - | S |
| | | Low-E LSC/Air | Lami/3.0mm | Intercept | | 0.35 | 0.21 | 0.40 | - | - | - | - | S | 0.35 | 0.19 | 0.36 | - | - | - | S |
| | | Low-E LSC/Argon | Lami/3.0mm | Intercept | | 0.31 | 0.21 | 0.40 | - | - | - | - | S | 0.31 | 0.19 | 0.36 | - | - | - | S |

KEY

- 2.2mm = Single Strength (SS)
- 3.0mm = Double Strength (DS)
- 4.0mm = Triple Strength (TS)
- Lami = .090 Laminated Glass (sacrificial glass type also indicates)
- SHGC = Solar Heat Gain Coefficient
- VT = Visible Transmittance

1) U-Factor defines the amount of heat loss through the total unit in BTU/hr/ft².°F. The lower the value, the less heat is lost through the entire product. Window values represent non-tempered glass unless otherwise noted. Use of tempered glass can increase U-Factor ratings. Door values represent tempered glass.

2) Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass both directly transmitted and absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the product.

3) Visible Light Transmittance (VLT) measures how much light comes through a product (glass and frame). The higher the value, from 0 to 1, the more daylight the product lets in over the product's total unit area. Visible Light Transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum.

| GLASS NAMES | | NFRC ratings are based on modeling by a third party agency as validated by an independent test lab in compliance with NFRC program and procedural requirements. | | | | | | | | | | | | | |
|-------------|-------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| New Name | Previous Name | * NFRC ratings are based on modeling by a third party agency as validated by an independent test lab in compliance with NFRC program and procedural requirements. | | | | | | | | | | | | | |
| Low-E | LoE2 | * - Optional foam in frame included. | | | | | | | | | | | | | |
| Low-E 3 | Low-E Smart Sun or LoE3 | ** Available for select patio door sizes. Data based on blinds in full open position. | | | | | | | | | | | | | |
| Low-E LSC | Low-E Sun or LoE-LS | | | | | | | | | | | | | | |