

Thermal Performance Data

Visions 3500 Slider Windows (9408)
(J-channel)



| US Qualification Criteria | Climate Zone | U-Value | SHGC | |
|---------------------------|---------------|-------------|-------------|-------------------------------|
| <p>As of January 2016</p> | 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 | | |

| Canadian Qualification Criteria | Climate Zone | U-Value | or | Energy Rating |
|---------------------------------|--|-------------|----|---------------|
| <p>As of February 2015</p> | Zone 1 | ≤ 1.60 | | ≥ 25 |
| | Zone 2 | ≤ 1.40 | | ≥ 29 |
| | Zone 3 | ≤ 1.20 | | ≥ 34 |
| | Air Leakage ≤ 0.3 cfm/ft ² | | | |

U-Value

A measurement of how much energy a material conducts. The lower the U-Value, the greater the insulating effect.

Solar Heat Gain Coefficient (SHGC)

Measures how well a window or door prevents heat from passing through it. The lower a window or door's SHGC, the less heat it allows to pass through it.

Visible Light Transmittance

The amount of light in the visible portion of the spectrum that passes through a glazing material.

Condensation Resistance Rating

Measures how well a window resists the formation of condensation on the inside surface. The higher the number the better resistance to condensation.

Energy Rating

A value demonstrating the balance between U-Value, SHGC and air leakage. The higher the number, the more efficient the product.

R-Value

A measurement of how much a material resists heat transfer. A higher R-Value means a greater insulating effect and a lower rate of heat flow out of the home. While **R-value** measures resistance to heat transfer, **U-value** measures the rate of heat transfer. In simple terms, **U-value** is the mathematical reciprocal of **R-value**; that is, $U = 1/R$ and $R = 1/U$.

^a Total Unit calculations are derived from computer simulations that are then verified by 3rd party testing in accordance with NFRC 100, NFRC 200, and NFRC 500.

^b Published values reflect 3mm/3mm glass lite thicknesses.

ENERGY PERFORMANCE DATA

Visions 3500 Slider Windows (9408)



CANADIAN ENERGY PERFORMANCE DATA



| Grille Option | Glazing thickness | aNFRC Total Unit Calculations bGlazing Option | CPD # | U-Value | Solar Heat Gain Coefficient | Visible Light Transmittance | Condensation Resistance Rating | US ENERGY STAR V 6.0 | | | | U-Value (metric) | Maximum Air Leakage L/s/m2 | Air Infiltration/Exfiltration Average | Energy Rating | CANADA ENERGY STAR v 4.1 | | |
|-------------------------|----------------------|--|-----------------------|---------|-----------------------------|-----------------------------|--------------------------------|----------------------|----|----|------|------------------|----------------------------|---------------------------------------|---------------|--------------------------|---|---|
| | | | | | | | | N | NC | SC | S | | | | | 1 | 2 | 3 |
| | | | | | | | | | | | | | | | | | | |
| No GIA or SDL | 3/4" | Clear Insul | WEA-N-308-00149-00001 | 0.46 | 0.62 | 0.65 | 48 | | | | | 2.61 | 0.6 | 0.06 | 19 | | | |
| | 3/4" | Insul Low-E | WEA-N-308-00150-00001 | 0.32 | 0.33 | 0.57 | 56 | | | | | 1.82 | 0.6 | 0.06 | 19 | | | |
| | 3/4" | Insul Low E w/Argon | WEA-N-308-00162-00001 | 0.28 | 0.33 | 0.57 | 60 | Y | Y | | | 1.59 | 0.6 | 0.06 | 24 | Y | | |
| | 3/4" | Passive Solar | WEA-N-308-00153-00001 | 0.32 | 0.55 | 0.63 | 56 | | | | | 1.82 | 0.6 | 0.06 | 32 | Y | Y | |
| | 3/4" | Passive Solar w/Argon | WEA-N-308-00165-00001 | 0.29 | 0.55 | 0.63 | 59 | Y | | | | 1.65 | 0.6 | 0.06 | 36 | Y | Y | Y |
| | 3/4" | Zo-e-shield 5 | WEA-N-308-00151-00001 | 0.31 | 0.22 | 0.51 | 57 | | | | Y | 1.76 | 0.6 | 0.06 | 14 | | | |
| | 3/4" | Zo-e-shield 5 w/ Argon | WEA-N-308-00163-00001 | 0.27 | 0.22 | 0.51 | 60 | Y | Y | Y | Y | 1.53 | 0.6 | 0.06 | 19 | Y | | |
| | 3/4" | Zo-e-shield 5 Extreme | WEA-N-308-00152-00001 | 0.26 | 0.22 | 0.50 | 44 | Y | Y | Y | Y | 1.48 | 0.6 | 0.06 | 20 | Y | | |
| | 3/4" | Zo-e-shield 5 Extreme w/ Argon | WEA-N-308-00164-00001 | 0.23 | 0.22 | 0.50 | 48 | Y | Y | Y | Y | 1.31 | 0.6 | 0.06 | 24 | Y | Y | |
| | 3/4" | Zo-e-shield 6 | WEA-N-308-00215-00001 | 0.31 | 0.22 | 0.51 | 58 | | | | Y | 1.76 | 0.6 | 0.06 | 14 | | | |
| | 3/4" | Zo-e-shield 6 w/ Argon | WEA-N-308-00223-00001 | 0.28 | 0.22 | 0.51 | 62 | | Y | Y | Y | 1.59 | 0.6 | 0.06 | 18 | Y | | |
| | 3/4" | Zo-e SafeGuard Certified | WEA-N-308-00220-00001 | 0.31 | 0.22 | 0.50 | 57 | | | | Y | 1.76 | 0.6 | 0.06 | 14 | | | |
| | 3/4" | Zo-e SafeGuard Certified w/ Argon | WEA-N-308-00228-00001 | 0.28 | 0.22 | 0.50 | 60 | | Y | Y | Y | 1.59 | 0.6 | 0.06 | 18 | Y | | |
| | 3/4" | Insul Low-E 240 | WEA-N-308-00155-00001 | 0.32 | 0.21 | 0.32 | 56 | | | | Y | 1.82 | 0.6 | 0.06 | 12 | | | |
| | 3/4" | Insul Low-E 240 w/Argon | WEA-N-308-00167-00001 | 0.28 | 0.20 | 0.32 | 59 | | Y | Y | Y | 1.59 | 0.6 | 0.06 | 17 | Y | | |
| | 3/4" | Insul Low-E 340 | WEA-N-308-00156-00001 | 0.31 | 0.15 | 0.31 | 57 | | | | Y | 1.76 | 0.6 | 0.06 | 10 | | | |
| | 3/4" | Insul Low-E 340 w/Argon | WEA-N-308-00168-00001 | 0.27 | 0.15 | 0.31 | 60 | Y | Y | Y | Y | 1.53 | 0.6 | 0.06 | 15 | | | |
| | 3/4" | Bronze Low E | WEA-N-308-00150-00011 | 0.32 | 0.32 | 0.42 | 56 | | | | | 1.82 | 0.6 | 0.06 | 19 | | | |
| 3/4" | Bronze Low E w/Argon | WEA-N-308-00162-00011 | 0.28 | 0.32 | 0.42 | 60 | Y | Y | | | 1.59 | 0.6 | 0.06 | 24 | Y | | | |
| Less Than 1" GIA or SDL | 3/4" | Clear Insul | WEA-N-308-00149-00002 | 0.46 | 0.56 | 0.58 | 48 | | | | | 2.61 | 0.6 | 0.06 | 15 | | | |
| | 3/4" | Insul Low-E | WEA-N-308-00150-00002 | 0.32 | 0.30 | 0.51 | 56 | | | | | 1.82 | 0.6 | 0.06 | 17 | | | |
| | 3/4" | Insul Low E w/Argon | WEA-N-308-00162-00002 | 0.28 | 0.30 | 0.51 | 60 | | Y | | | 1.59 | 0.6 | 0.06 | 22 | Y | | |
| | 3/4" | Passive Solar | WEA-N-308-00153-00002 | 0.32 | 0.49 | 0.56 | 56 | | | | | 1.82 | 0.6 | 0.06 | 28 | Y | | |
| | 3/4" | Passive Solar w/Argon | WEA-N-308-00165-00002 | 0.29 | 0.49 | 0.56 | 59 | Y | | | | 1.65 | 0.6 | 0.06 | 32 | Y | Y | |
| | 3/4" | Zo-e-shield 5 | WEA-N-308-00151-00002 | 0.31 | 0.20 | 0.46 | 57 | | | | Y | 1.76 | 0.6 | 0.06 | 13 | | | |
| | 3/4" | Zo-e-shield 5 w/ Argon | WEA-N-308-00163-00002 | 0.27 | 0.20 | 0.46 | 60 | Y | Y | Y | Y | 1.53 | 0.6 | 0.06 | 18 | Y | | |
| | 3/4" | Zo-e-shield 5 Extreme | WEA-N-308-00152-00002 | 0.26 | 0.20 | 0.45 | 44 | Y | Y | Y | Y | 1.48 | 0.6 | 0.06 | 19 | Y | | |
| | 3/4" | Zo-e-shield 5 Extreme w/ Argon | WEA-N-308-00164-00002 | 0.23 | 0.20 | 0.45 | 48 | Y | Y | Y | Y | 1.31 | 0.6 | 0.06 | 23 | Y | Y | |
| | 3/4" | Zo-e-shield 6 | WEA-N-308-00215-00002 | 0.31 | 0.20 | 0.45 | 58 | | | | Y | 1.76 | 0.6 | 0.06 | 13 | | | |
| | 3/4" | Zo-e-shield 6 w/ Argon | WEA-N-308-00223-00002 | 0.28 | 0.20 | 0.45 | 62 | | Y | Y | Y | 1.59 | 0.6 | 0.06 | 17 | Y | | |
| | 3/4" | Zo-e SafeGuard Certified | WEA-N-308-00220-00002 | 0.31 | 0.20 | 0.45 | 57 | | | | Y | 1.76 | 0.6 | 0.06 | 13 | | | |
| | 3/4" | Zo-e SafeGuard Certified w/ Argon | WEA-N-308-00228-00002 | 0.28 | 0.20 | 0.45 | 60 | | Y | Y | Y | 1.59 | 0.6 | 0.06 | 17 | Y | | |
| | 3/4" | Insul Low-E 240 | WEA-N-308-00155-00002 | 0.32 | 0.19 | 0.28 | 56 | | | | Y | 1.82 | 0.6 | 0.06 | 11 | | | |
| | 3/4" | Insul Low-E 240 w/Argon | WEA-N-308-00167-00002 | 0.28 | 0.18 | 0.28 | 59 | | Y | Y | Y | 1.59 | 0.6 | 0.06 | 15 | | | |
| | 3/4" | Insul Low-E 340 | WEA-N-308-00156-00002 | 0.31 | 0.14 | 0.28 | 57 | | | | Y | 1.76 | 0.6 | 0.06 | 9 | | | |
| | 3/4" | Insul Low-E 340 w/Argon | WEA-N-308-00168-00002 | 0.27 | 0.13 | 0.28 | 60 | Y | Y | Y | Y | 1.53 | 0.6 | 0.06 | 14 | | | |
| | 3/4" | Bronze Low E | WEA-N-308-00150-00012 | 0.32 | 0.29 | 0.38 | 56 | | | | | 1.82 | 0.6 | 0.06 | 17 | | | |
| 3/4" | Bronze Low E w/Argon | WEA-N-308-00162-00012 | 0.28 | 0.28 | 0.38 | 60 | | Y | | | 1.59 | 0.6 | 0.06 | 21 | Y | | | |
| 1" Or Over GIA or SDL | 3/4" | Clear Insul | WEA-N-308-00149-00003 | 0.46 | 0.50 | 0.52 | 48 | | | | | 2.61 | 0.6 | 0.06 | 12 | | | |
| | 3/4" | Insul Low-E | WEA-N-308-00150-00003 | 0.32 | 0.27 | 0.45 | 56 | | | | | 1.82 | 0.6 | 0.06 | 16 | | | |
| | 3/4" | Insul Low E w/Argon | WEA-N-308-00162-00003 | 0.28 | 0.27 | 0.45 | 60 | | Y | | | 1.59 | 0.6 | 0.06 | 21 | Y | | |
| | 3/4" | Passive Solar | WEA-N-308-00153-00003 | 0.32 | 0.44 | 0.50 | 56 | | | | | 1.82 | 0.6 | 0.06 | 25 | Y | | |
| | 3/4" | Passive Solar w/Argon | WEA-N-308-00165-00003 | 0.29 | 0.44 | 0.50 | 59 | Y | | | | 1.65 | 0.6 | 0.06 | 29 | Y | Y | |
| | 3/4" | Zo-e-shield 5 | WEA-N-308-00151-00003 | 0.31 | 0.18 | 0.41 | 57 | | | | Y | 1.76 | 0.6 | 0.06 | 12 | | | |
| | 3/4" | Zo-e-shield 5 w/ Argon | WEA-N-308-00163-00003 | 0.27 | 0.18 | 0.41 | 60 | Y | Y | Y | Y | 1.53 | 0.6 | 0.06 | 17 | Y | | |
| | 3/4" | Zo-e-shield 5 Extreme | WEA-N-308-00152-00003 | 0.26 | 0.18 | 0.40 | 44 | Y | Y | Y | Y | 1.48 | 0.6 | 0.06 | 18 | Y | | |
| | 3/4" | Zo-e-shield 5 Extreme w/ Argon | WEA-N-308-00164-00003 | 0.23 | 0.18 | 0.40 | 48 | Y | Y | Y | Y | 1.31 | 0.6 | 0.06 | 22 | Y | Y | |
| | 3/4" | Zo-e-shield 6 | WEA-N-308-00215-00003 | 0.31 | 0.18 | 0.40 | 58 | | | | Y | 1.76 | 0.6 | 0.06 | 12 | | | |
| | 3/4" | Zo-e-shield 6 w/ Argon | WEA-N-308-00223-00003 | 0.28 | 0.18 | 0.40 | 62 | | Y | Y | Y | 1.59 | 0.6 | 0.06 | 15 | | | |
| | 3/4" | Zo-e SafeGuard Certified | WEA-N-308-00220-00003 | 0.31 | 0.18 | 0.40 | 57 | | | | Y | 1.76 | 0.6 | 0.06 | 12 | | | |
| | 3/4" | Zo-e SafeGuard Certified w/ Argon | WEA-N-308-00228-00003 | 0.28 | 0.18 | 0.40 | 60 | | Y | Y | Y | 1.59 | 0.6 | 0.06 | 15 | | | |
| | 3/4" | Insul Low-E 240 | WEA-N-308-00155-00003 | 0.32 | 0.17 | 0.25 | 56 | | | | Y | 1.82 | 0.6 | 0.06 | 10 | | | |
| | 3/4" | Insul Low-E 240 w/Argon | WEA-N-308-00167-00003 | 0.28 | 0.17 | 0.25 | 59 | | Y | Y | Y | 1.59 | 0.6 | 0.06 | 15 | | | |
| | 3/4" | Insul Low-E 340 | WEA-N-308-00156-00003 | 0.31 | 0.13 | 0.24 | 57 | | | | Y | 1.76 | 0.6 | 0.06 | 9 | | | |
| | 3/4" | Insul Low-E 340 w/Argon | WEA-N-308-00168-00003 | 0.27 | 0.12 | 0.24 | 60 | Y | Y | Y | Y | 1.53 | 0.6 | 0.06 | 13 | | | |
| | 3/4" | Bronze Low E | WEA-N-308-00150-00013 | 0.32 | 0.26 | 0.33 | 56 | | | | | 1.82 | 0.6 | 0.06 | 15 | | | |
| 3/4" | Bronze Low E w/Argon | WEA-N-308-00162-00013 | 0.28 | 0.26 | 0.33 | 60 | | Y | | | 1.59 | 0.6 | 0.06 | 20 | Y | | | |