

Thermal Performance Data

Visions 3500 Double Hung Windows (9108)

(non J-channel)



| ENERGY PERFORMANCE DATA | | | | | | | | ENERGY STAR | | CANADIAN ENERGY PERFORMANCE DATA | | | | ENERGY STAR | | | | |
|---|-------------------------|--|-----------------------|-----------------------|-----------------------------|-----------------------------|--------------------------------|----------------------|----|----------------------------------|---|------------------|--|---------------------------------------|---------------|--------------------------|---|---|
| NFRC Total Unit Calculations ^a | | | | | | | | US ENERGY STAR V 6.0 | | | | | | CANADA ENERGY STAR v 4.1 | | | | |
| Grille Option | Glazing thickness | Glazing Option ^b | 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/m ² | 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-289-00221-00001 | 0.45 | 0.59 | 0.62 | 45 | | | | | 2.56 | 0.6 | 0.26 | 18 | | | |
| | 3/4" | Insul Low-E | WEA-N-289-00222-00001 | 0.32 | 0.32 | 0.54 | 56 | | | | | 1.82 | 0.6 | 0.26 | 18 | | | |
| | 3/4" | Insul Low E w/Argon | WEA-N-289-00229-00001 | 0.28 | 0.31 | 0.54 | 60 | | Y | | | 1.59 | 0.6 | 0.26 | 23 | Y | | |
| | 3/4" | Bronze Low E | WEA-N-289-00192-00011 | 0.32 | 0.30 | 0.41 | 56 | | | | | 1.82 | 0.6 | 0.26 | 17 | | | |
| | 3/4" | Bronze Low E w/Argon | WEA-N-289-00199-00011 | 0.28 | 0.30 | 0.41 | 60 | | Y | | | 1.59 | 0.6 | 0.26 | 22 | Y | | |
| | 3/4" | Insul Low-E 340 | WEA-N-289-00196-00001 | 0.31 | 0.14 | 0.29 | 57 | | | | Y | 1.76 | 0.6 | 0.26 | 9 | | | |
| | 3/4" | Insul Low-E 340 w/Argon | WEA-N-289-00203-00001 | 0.28 | 0.14 | 0.29 | 60 | | Y | Y | Y | 1.59 | 0.6 | 0.26 | 13 | | | |
| | 3/4" | Zo-e-shield 5 | WEA-N-289-00193-00001 | 0.31 | 0.21 | 0.49 | 57 | | | | | 1.76 | 0.6 | 0.26 | 13 | | | |
| | 3/4" | Zo-e-shield 5 w/ Argon | WEA-N-289-00200-00001 | 0.28 | 0.21 | 0.49 | 61 | | Y | Y | Y | 1.59 | 0.6 | 0.26 | 17 | Y | | |
| | 3/4" | Zo-e-shield 5 Extreme | WEA-N-289-00197-00001 | 0.26 | 0.21 | 0.48 | 45 | Y | Y | Y | Y | 1.48 | 0.6 | 0.26 | 19 | Y | | |
| | 3/4" | Zo-e-shield 5 Extreme w/ Argon | WEA-N-289-00204-00001 | 0.24 | 0.21 | 0.48 | 48 | Y | Y | Y | Y | 1.36 | 0.6 | 0.26 | 22 | Y | Y | |
| | 3/4" | Insul Low-E 180 | WEA-N-289-00194-00001 | 0.32 | 0.52 | 0.60 | 56 | | | | | 1.82 | 0.6 | 0.26 | 30 | Y | Y | |
| | 3/4" | Insul Low E 180 w/Argon | WEA-N-289-00201-00001 | 0.29 | 0.52 | 0.60 | 60 | Y | | | | 1.65 | 0.6 | 0.26 | 33 | Y | Y | |
| | 3/4" | Zo-e-shield 6 | WEA-N-289-00240-00001 | 0.32 | 0.21 | 0.48 | 55 | | | | Y | 1.82 | 0.6 | 0.26 | 12 | | | |
| | 3/4" | Zo-e-shield 6 w/ Argon | WEA-N-289-00252-00001 | 0.28 | 0.21 | 0.48 | 59 | | Y | Y | Y | 1.59 | 0.6 | 0.26 | 17 | Y | | |
| | 3/4" | Zo-e-shield 7 (Triple Glazed) | WEA-N-289-00440-00001 | 0.25 | 0.19 | 0.39 | 66 | Y | Y | Y | Y | 1.42 | 0.6 | 0.26 | 19 | Y | | |
| | 3/4" | Zo-e-shield 7 w/ Argon (Triple Glazed) | WEA-N-289-00444-00001 | 0.22 | 0.19 | 0.39 | 66 | Y | Y | Y | Y | 1.25 | 0.6 | 0.26 | 23 | Y | Y | |
| | Less Than 1" GIA or SDL | 3/4" | Clear Insul | WEA-N-289-00221-00002 | 0.45 | 0.53 | 0.55 | 45 | | | | | 2.56 | 0.6 | 0.26 | 14 | | |
| 3/4" | | Insul Low-E | WEA-N-289-00222-00002 | 0.32 | 0.29 | 0.48 | 56 | | | | | 1.82 | 0.6 | 0.26 | 16 | | | |
| 3/4" | | Insul Low E w/Argon | WEA-N-289-00229-00002 | 0.28 | 0.28 | 0.48 | 60 | | Y | | | 1.59 | 0.6 | 0.26 | 21 | Y | | |
| 3/4" | | Bronze Low E | WEA-N-289-00192-00012 | 0.32 | 0.27 | 0.36 | 56 | | | | | 1.82 | 0.6 | 0.26 | 15 | | | |
| 3/4" | | Bronze Low E w/Argon | WEA-N-289-00199-00012 | 0.28 | 0.27 | 0.36 | 60 | | Y | | | 1.59 | 0.6 | 0.26 | 20 | Y | | |
| 3/4" | | Insul Low-E 340 | WEA-N-289-00196-00002 | 0.31 | 0.13 | 0.26 | 57 | | | | Y | 1.76 | 0.6 | 0.26 | 8 | | | |
| 3/4" | | Insul Low-E 340 w/Argon | WEA-N-289-00203-00002 | 0.28 | 0.13 | 0.26 | 60 | | Y | Y | Y | 1.59 | 0.6 | 0.26 | 12 | | | |
| 3/4" | | Zo-e-shield 5 | WEA-N-289-00193-00002 | 0.31 | 0.19 | 0.43 | 57 | | | | Y | 1.76 | 0.6 | 0.26 | 12 | | | |
| 3/4" | | Zo-e-shield 5 w/ Argon | WEA-N-289-00200-00002 | 0.28 | 0.19 | 0.43 | 61 | | Y | Y | Y | 1.59 | 0.6 | 0.26 | 16 | | | |
| 3/4" | | Zo-e-shield 5 Extreme | WEA-N-289-00197-00002 | 0.26 | 0.19 | 0.42 | 45 | Y | Y | Y | Y | 1.48 | 0.6 | 0.26 | 18 | Y | | |
| 3/4" | | Zo-e-shield 5 Extreme w/ Argon | WEA-N-289-00204-00002 | 0.24 | 0.19 | 0.42 | 48 | Y | Y | Y | Y | 1.36 | 0.6 | 0.26 | 21 | Y | Y | |
| 3/4" | | Insul Low-E 180 | WEA-N-289-00194-00002 | 0.32 | 0.46 | 0.53 | 56 | | | | | 1.82 | 0.6 | 0.26 | 26 | Y | | |
| 3/4" | | Insul Low E 180 w/Argon | WEA-N-289-00201-00002 | 0.29 | 0.47 | 0.53 | 60 | Y | | | | 1.65 | 0.6 | 0.26 | 31 | Y | Y | |
| 3/4" | | Zo-e-shield 6 | WEA-N-289-00241-00001 | 0.34 | 0.19 | 0.43 | 55 | | | | Y | 1.93 | 0.6 | 0.26 | 8 | | | |
| 3/4" | | Zo-e-shield 6 w/ Argon | WEA-N-289-00253-00001 | 0.30 | 0.19 | 0.43 | 59 | | Y | Y | Y | 1.70 | 0.6 | 0.26 | 13 | | | |
| 3/4" | | Zo-e-shield 7 (Triple Glazed) | WEA-N-289-00441-00001 | 0.26 | 0.18 | 0.35 | 66 | Y | Y | Y | Y | 1.48 | 0.6 | 0.26 | 17 | Y | | |
| 3/4" | | Zo-e-shield 7 w/ Argon (Triple Glazed) | WEA-N-289-00445-00001 | 0.22 | 0.17 | 0.35 | 66 | Y | Y | Y | Y | 1.25 | 0.6 | 0.26 | 22 | Y | Y | |
| 1" or Over GIA or SDL | | 3/4" | Clear Insul | WEA-N-289-00221-00003 | 0.45 | 0.47 | 0.49 | 45 | | | | | 2.56 | 0.6 | 0.26 | 11 | | |
| | 3/4" | Insul Low-E | WEA-N-289-00222-00003 | 0.32 | 0.26 | 0.43 | 56 | | | | | 1.82 | 0.6 | 0.26 | 15 | | | |
| | 3/4" | Insul Low E w/Argon | WEA-N-289-00229-00003 | 0.28 | 0.25 | 0.43 | 60 | | Y | Y | Y | 1.59 | 0.6 | 0.26 | 19 | Y | | |
| | 3/4" | Bronze Low E | WEA-N-289-00192-00013 | 0.32 | 0.24 | 0.32 | 56 | | | | Y | 1.82 | 0.6 | 0.26 | 13 | | | |
| | 3/4" | Bronze Low E w/Argon | WEA-N-289-00199-00013 | 0.28 | 0.24 | 0.32 | 60 | | Y | Y | Y | 1.59 | 0.6 | 0.26 | 19 | Y | | |
| | 3/4" | Insul Low-E 340 | WEA-N-289-00196-00003 | 0.31 | 0.12 | 0.23 | 57 | | | | Y | 1.76 | 0.6 | 0.26 | 8 | | | |
| | 3/4" | Insul Low-E 340 w/Argon | WEA-N-289-00203-00003 | 0.28 | 0.11 | 0.23 | 60 | | Y | Y | Y | 1.59 | 0.6 | 0.26 | 11 | | | |
| | 3/4" | Zo-e-shield 5 | WEA-N-289-00193-00003 | 0.31 | 0.17 | 0.38 | 57 | | | | Y | 1.76 | 0.6 | 0.26 | 11 | | | |
| | 3/4" | Zo-e-shield 5 w/ Argon | WEA-N-289-00200-00003 | 0.28 | 0.17 | 0.38 | 61 | | Y | Y | Y | 1.59 | 0.6 | 0.26 | 14 | | | |
| | 3/4" | Zo-e-shield 5 Extreme | WEA-N-289-00197-00003 | 0.26 | 0.17 | 0.37 | 45 | Y | Y | Y | Y | 1.48 | 0.6 | 0.26 | 17 | Y | | |
| | 3/4" | Zo-e-shield 5 Extreme w/ Argon | WEA-N-289-00204-00003 | 0.24 | 0.17 | 0.37 | 48 | Y | Y | Y | Y | 1.36 | 0.6 | 0.26 | 20 | Y | | |
| | 3/4" | Insul Low-E 180 | WEA-N-289-00194-00003 | 0.32 | 0.41 | 0.47 | 56 | | | | | 1.82 | 0.6 | 0.26 | 23 | | | |
| | 3/4" | Insul Low E 180 w/Argon | WEA-N-289-00201-00003 | 0.29 | 0.41 | 0.47 | 60 | Y | | | | 1.65 | 0.6 | 0.26 | 27 | Y | | |
| | 3/4" | Zo-e-shield 6 | WEA-N-289-00241-00002 | 0.34 | 0.17 | 0.38 | 55 | | | | Y | 1.93 | 0.6 | 0.26 | 7 | | | |
| | 3/4" | Zo-e-shield 6 w/ Argon | WEA-N-289-00253-00002 | 0.30 | 0.17 | 0.38 | 59 | | Y | Y | Y | 1.70 | 0.6 | 0.26 | 12 | | | |
| | 3/4" | Zo-e-shield 7 (Triple Glazed) | WEA-N-289-00441-00002 | 0.26 | 0.16 | 0.31 | 66 | Y | Y | Y | Y | 1.48 | 0.6 | 0.26 | 16 | Y | | |
| | 3/4" | Zo-e-shield 7 w/ Argon (Triple Glazed) | WEA-N-289-00445-00002 | 0.22 | 0.16 | 0.31 | 66 | Y | Y | Y | Y | 1.25 | 0.6 | 0.26 | 21 | Y | Y | |

^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.

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| US Qualification Criteria | Climate Zone | U-Factor | *SHGC | Prescriptive |
|---------------------------|---------------|----------|--------|--------------|
| <p>As of January 2016</p> | Northern | <=0.27 | Any | |
| | | =0.28 | >=0.32 | |
| | | =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 | | |

* SHGC = Solar Heat Gain Coefficient
Air Leakage <= 0.3 cfm/ft²