



| US Qualification Criteria   | Climate Zone  | U-Value | SHGC   |
|---|---------------|---------|--------|
|  <p>Energy Star Version 7.0 Starting October 2023</p> | Northern      | <=0.26  | <=0.40 |
|   | North-Central |         |        |
|   | South-Central | <=0.28  | <=0.23 |
|   | Southern      |         |        |

| Canadian Qualification Criteria   | U-Value                   | or | Energy Rating |
|---|---------------------------|----|---------------|
|  <p>Energy Star Version 5.0 starting January 2020</p> | <=1.22                    |    | >=34          |
|   | Air Leakage <= 1.5 L/s/m2 |    |               |

**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**.

<sup>a</sup> 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.

<sup>b</sup> Published values reflect 3mm glass lite thicknesses.

| ENERGY PERFORMANCE DATA                |                         |  |                       |                       |                             |                             |                                | CANADIAN ENERGY PERFORMANCE DATA |    |    |      |                  |                            |                                       |               |                          |
|--|-------------------------|--|-----------------------|-----------------------|-----------------------------|-----------------------------|--------------------------------|----------------------------------|----|----|------|------------------|----------------------------|---------------------------------------|---------------|--------------------------|
| Contemporary Sliding Patio Door (8728) |                         |  |                       |                       |                             |                             |                                | ENERGY STAR                      |    |    |      |                  |                            |                                       |               |                          |
| Grille Option                          | Glazing thickness       | aNFRC Total Unit Calculations<br>bGlazing Option | CPD #                 | U-Value               | Solar Heat Gain Coefficient | Visible Light Transmittance | Condensation Resistance Rating | US ENERGY STAR V 7.0             |    |    |      | U-Value (metric) | Maximum Air Leakage L/s/m2 | Air Infiltration/Exfiltration Average | Energy Rating | CANADA ENERGY STAR v 5.0 |
|  |                         |  |                       |                       |                             |                             |                                | N                                | NC | SC | S    |                  |                            |                                       |               |                          |
| No GIA or SDL                          | 1"                      | Clear Insul                                      | WEA-N-345-00001-00001 | 0.47                  | 0.58                        | 0.61                        | 42                             |                                  |    |    |      | 2.67             | 1.5                        | 0.05                                  | 15            |                          |
|  | 1"                      | Insul Low-E                                      | WEA-N-345-00002-00001 | 0.35                  | 0.31                        | 0.53                        | 52                             |                                  |    |    |      | 1.99             | 1.5                        | 0.05                                  | 14            |                          |
|  | 1"                      | Insul Low E w/Argon                              | WEA-N-345-00010-00001 | 0.32                  | 0.31                        | 0.53                        | 55                             |                                  |    |    |      | 1.82             | 1.5                        | 0.05                                  | 18            |                          |
|  | 1"                      | Passive Solar                                    | WEA-N-345-00005-00001 | 0.36                  | 0.51                        | 0.59                        | 52                             |                                  |    |    |      | 2.04             | 1.5                        | 0.05                                  | 25            |                          |
|  | 1"                      | Passive Solar w/Argon                            | WEA-N-345-00013-00001 | 0.33                  | 0.51                        | 0.59                        | 55                             |                                  |    |    |      | 1.87             | 1.5                        | 0.05                                  | 28            |                          |
|  | 1"                      | Passive Solar Extreme                            | WEA-N-345-00006-00001 | 0.30                  | 0.47                        | 0.57                        | 42                             |                                  |    |    |      | 1.70             | 1.5                        | 0.05                                  | 30            |                          |
|  | 1"                      | Passive Solar Extreme w/Argon                    | WEA-N-345-00014-00001 | 0.28                  | 0.47                        | 0.57                        | 45                             |                                  |    |    |      | 1.59             | 1.5                        | 0.05                                  | 32            |                          |
|  | 1"                      | Zo-e-shield 5                                    | WEA-N-345-00003-00001 | 0.35                  | 0.21                        | 0.48                        | 53                             |                                  |    |    |      | 1.99             | 1.5                        | 0.05                                  | 8             |                          |
|  | 1"                      | Zo-e-shield 5 w/ Argon                           | WEA-N-345-00011-00001 | 0.31                  | 0.21                        | 0.48                        | 56                             |                                  |    |    |      | 1.76             | 1.5                        | 0.05                                  | 13            |                          |
|  | 1"                      | Zo-e-shield 5 Extreme                            | WEA-N-345-00004-00001 | 0.29                  | 0.20                        | 0.47                        | 43                             |                                  |    |    |      | 1.65             | 1.5                        | 0.05                                  | 15            |                          |
|  | 1"                      | Zo-e-shield 5 Extreme w/ Argon                   | WEA-N-345-00012-00001 | 0.27                  | 0.20                        | 0.47                        | 46                             |                                  |    | Y  | Y    | 1.53             | 1.5                        | 0.05                                  | 18            |                          |
|  | 1"                      | Zo-e-shield 6                                    | WEA-N-345-00153-00001 | 0.34                  | 0.21                        | 0.47                        | 52                             |                                  |    |    |      | 1.93             | 1.5                        | 0.05                                  | 10            |                          |
|  | 1"                      | Zo-e-shield 6 w/ Argon                           | WEA-N-345-00161-00001 | 0.31                  | 0.20                        | 0.47                        | 55                             |                                  |    |    |      | 1.76             | 1.5                        | 0.05                                  | 13            |                          |
|  | 1"                      | Zo-e SafeGuard Certified                         | WEA-N-345-00158-00001 | 0.34                  | 0.20                        | 0.47                        | 52                             |                                  |    |    |      | 1.93             | 1.5                        | 0.05                                  | 9             |                          |
|  | 1"                      | Zo-e SafeGuard Certified w/ Argon                | WEA-N-345-00166-00001 | 0.31                  | 0.20                        | 0.47                        | 55                             |                                  |    |    |      | 1.76             | 1.5                        | 0.05                                  | 13            |                          |
|  | 1"                      | Zo-e-shield 7                                    | WEA-N-345-00089-00001 | 0.28                  | 0.19                        | 0.38                        | 59                             |                                  |    | Y  | Y    | 1.59             | 1.5                        | 0.05                                  | 16            |                          |
|  | 1"                      | Zo-e-shield 7 w/ Argon                           | WEA-N-345-00107-00001 | 0.24                  | 0.19                        | 0.38                        | 60                             | Y                                | Y  | Y  | Y    | 1.36             | 1.5                        | 0.05                                  | 21            |                          |
|  | 1"                      | Insul Low-E 240                                  | WEA-N-345-00007-00001 | 0.36                  | 0.19                        | 0.30                        | 52                             |                                  |    |    |      | 2.04             | 1.5                        | 0.05                                  | 6             |                          |
|  | 1"                      | Insul Low-E 240 w/Argon                          | WEA-N-345-00015-00001 | 0.32                  | 0.19                        | 0.30                        | 55                             |                                  |    |    |      | 1.82             | 1.5                        | 0.05                                  | 11            |                          |
|  | Less Than 1" GIA or SDL | 1"   | Clear Insul           | WEA-N-345-00001-00002 | 0.47                        | 0.51                        | 0.53                           | 42                               |    |    |      |                  | 2.67                       | 1.5                                   | 0.05          | 11                       |
| 1"                                     |                         | Insul Low-E                                      | WEA-N-345-00002-00002 | 0.35                  | 0.28                        | 0.46                        | 52                             |                                  |    |    |      | 1.99             | 1.5                        | 0.05                                  | 12            |                          |
| 1"                                     |                         | Insul Low E w/Argon                              | WEA-N-345-00010-00002 | 0.32                  | 0.27                        | 0.46                        | 55                             |                                  |    |    |      | 1.82             | 1.5                        | 0.05                                  | 16            |                          |
| 1"                                     |                         | Passive Solar                                    | WEA-N-345-00005-00002 | 0.36                  | 0.45                        | 0.51                        | 52                             |                                  |    |    |      | 2.04             | 1.5                        | 0.05                                  | 21            |                          |
| 1"                                     |                         | Passive Solar w/Argon                            | WEA-N-345-00013-00002 | 0.33                  | 0.45                        | 0.51                        | 55                             |                                  |    |    |      | 1.87             | 1.5                        | 0.05                                  | 25            |                          |
| 1"                                     |                         | Passive Solar Extreme                            | WEA-N-345-00006-00002 | 0.30                  | 0.41                        | 0.50                        | 42                             |                                  |    |    |      | 1.70             | 1.5                        | 0.05                                  | 26            |                          |
| 1"                                     |                         | Passive Solar Extreme w/Argon                    | WEA-N-345-00014-00002 | 0.28                  | 0.41                        | 0.50                        | 45                             |                                  |    |    |      | 1.59             | 1.5                        | 0.05                                  | 29            |                          |
| 1"                                     |                         | Zo-e-shield 5                                    | WEA-N-345-00003-00002 | 0.35                  | 0.18                        | 0.42                        | 53                             |                                  |    |    |      | 1.99             | 1.5                        | 0.05                                  | 7             |                          |
| 1"                                     |                         | Zo-e-shield 5 w/ Argon                           | WEA-N-345-00011-00002 | 0.31                  | 0.18                        | 0.42                        | 56                             |                                  |    |    |      | 1.76             | 1.5                        | 0.05                                  | 12            |                          |
| 1"                                     |                         | Zo-e-shield 5 Extreme                            | WEA-N-345-00004-00002 | 0.29                  | 0.18                        | 0.41                        | 43                             |                                  |    |    |      | 1.65             | 1.5                        | 0.05                                  | 14            |                          |
| 1"                                     |                         | Zo-e-shield 5 Extreme w/ Argon                   | WEA-N-345-00012-00002 | 0.27                  | 0.18                        | 0.41                        | 46                             |                                  |    | Y  | Y    | 1.53             | 1.5                        | 0.05                                  | 17            |                          |
| 1"                                     |                         | Zo-e-shield 6                                    | WEA-N-345-00153-00002 | 0.34                  | 0.18                        | 0.41                        | 52                             |                                  |    |    |      | 1.93             | 1.5                        | 0.05                                  | 8             |                          |
| 1"                                     |                         | Zo-e-shield 6 w/ Argon                           | WEA-N-345-00161-00002 | 0.31                  | 0.18                        | 0.41                        | 55                             |                                  |    |    |      | 1.76             | 1.5                        | 0.05                                  | 12            |                          |
| 1"                                     |                         | Zo-e SafeGuard Certified                         | WEA-N-345-00158-00002 | 0.34                  | 0.18                        | 0.41                        | 52                             |                                  |    |    |      | 1.93             | 1.5                        | 0.05                                  | 8             |                          |
| 1"                                     |                         | Zo-e SafeGuard Certified w/ Argon                | WEA-N-345-00166-00002 | 0.31                  | 0.18                        | 0.41                        | 55                             |                                  |    |    |      | 1.76             | 1.5                        | 0.05                                  | 12            |                          |
| 1"                                     |                         | Zo-e-shield 7                                    | WEA-N-345-00090-00001 | 0.28                  | 0.17                        | 0.33                        | 59                             |                                  |    | Y  | Y    | 1.59             | 1.5                        | 0.05                                  | 15            |                          |
| 1"                                     |                         | Zo-e-shield 7 w/ Argon                           | WEA-N-345-00108-00001 | 0.25                  | 0.17                        | 0.33                        | 60                             | Y                                | Y  | Y  | Y    | 1.42             | 1.5                        | 0.05                                  | 19            |                          |
| 1"                                     |                         | Insul Low-E 240                                  | WEA-N-345-00007-00002 | 0.36                  | 0.17                        | 0.26                        | 52                             |                                  |    |    |      | 2.04             | 1.5                        | 0.05                                  | 5             |                          |
| 1"                                     |                         | Insul Low-E 240 w/Argon                          | WEA-N-345-00015-00002 | 0.32                  | 0.17                        | 0.26                        | 55                             |                                  |    |    |      | 1.82             | 1.5                        | 0.05                                  | 10            |                          |
| 1"                                     |                         | Insul Low-E 340                                  | WEA-N-345-00008-00002 | 0.35                  | 0.13                        | 0.25                        | 53                             |                                  |    |    |      | 1.99             | 1.5                        | 0.05                                  | 4             |                          |
| 1"                                     | Insul Low-E 340 w/Argon | WEA-N-345-00016-00002                            | 0.32                  | 0.12                  | 0.25                        | 55                          |                                |                                  |    |    | 1.82 | 1.5              | 0.05                       | 7                                     |               |                          |
| 1"                                     | Bronze Low E            | WEA-N-345-00002-00012                            | 0.35                  | 0.26                  | 0.34                        | 52                          |                                |                                  |    |    | 1.99 | 1.5              | 0.05                       | 11                                    |               |                          |
| 1"                                     | Bronze Low E w/Argon    | WEA-N-345-00010-00012                            | 0.32                  | 0.26                  | 0.34                        | 55                          |                                |                                  |    |    | 1.82 | 1.5              | 0.05                       | 15                                    |               |                          |
| 1" Or Over GIA or SDL                  | 1"                      | Clear Insul                                      | WEA-N-345-00001-00003 | 0.47                  | 0.44                        | 0.46                        | 42                             |                                  |    |    |      | 2.67             | 1.5                        | 0.05                                  | 7             |                          |
|  | 1"                      | Insul Low-E                                      | WEA-N-345-00002-00003 | 0.35                  | 0.24                        | 0.40                        | 52                             |                                  |    |    |      | 1.99             | 1.5                        | 0.05                                  | 10            |                          |
|  | 1"                      | Insul Low E w/Argon                              | WEA-N-345-00010-00003 | 0.32                  | 0.24                        | 0.40                        | 55                             |                                  |    |    |      | 1.82             | 1.5                        | 0.05                                  | 14            |                          |
|  | 1"                      | Passive Solar                                    | WEA-N-345-00005-00003 | 0.36                  | 0.39                        | 0.44                        | 52                             |                                  |    |    |      | 2.04             | 1.5                        | 0.05                                  | 18            |                          |
|  | 1"                      | Passive Solar w/Argon                            | WEA-N-345-00013-00003 | 0.33                  | 0.39                        | 0.44                        | 55                             |                                  |    |    |      | 1.87             | 1.5                        | 0.05                                  | 21            |                          |
|  | 1"                      | Passive Solar Extreme                            | WEA-N-345-00006-00003 | 0.30                  | 0.36                        | 0.43                        | 42                             |                                  |    |    |      | 1.70             | 1.5                        | 0.05                                  | 23            |                          |
|  | 1"                      | Passive Solar Extreme w/Argon                    | WEA-N-345-00014-00003 | 0.28                  | 0.36                        | 0.43                        | 45                             |                                  |    |    |      | 1.59             | 1.5                        | 0.05                                  | 26            |                          |
|  | 1"                      | Zo-e-shield 5                                    | WEA-N-345-00003-00003 | 0.35                  | 0.16                        | 0.36                        | 53                             |                                  |    |    |      | 1.99             | 1.5                        | 0.05                                  | 6             |                          |
|  | 1"                      | Zo-e-shield 5 w/ Argon                           | WEA-N-345-00011-00003 | 0.31                  | 0.16                        | 0.36                        | 56                             |                                  |    |    |      | 1.76             | 1.5                        | 0.05                                  | 11            |                          |
|  | 1"                      | Zo-e-shield 5 Extreme                            | WEA-N-345-00004-00003 | 0.29                  | 0.16                        | 0.35                        | 43                             |                                  |    |    |      | 1.65             | 1.5                        | 0.05                                  | 13            |                          |
|  | 1"                      | Zo-e-shield 5 Extreme w/ Argon                   | WEA-N-345-00012-00003 | 0.27                  | 0.16                        | 0.35                        | 46                             |                                  |    | Y  | Y    | 1.53             | 1.5                        | 0.05                                  | 16            |                          |
|  | 1"                      | Zo-e-shield 6                                    | WEA-N-345-00153-00003 | 0.34                  | 0.16                        | 0.36                        | 52                             |                                  |    |    |      | 1.93             | 1.5                        | 0.05                                  | 7             |                          |
|  | 1"                      | Zo-e-shield 6 w/ Argon                           | WEA-N-345-00161-00003 | 0.31                  | 0.16                        | 0.36                        | 55                             |                                  |    |    |      | 1.76             | 1.5                        | 0.05                                  | 11            |                          |
|  | 1"                      | Zo-e SafeGuard Certified                         | WEA-N-345-00158-00003 | 0.34                  | 0.16                        | 0.35                        | 52                             |                                  |    |    |      | 1.93             | 1.5                        | 0.05                                  | 7             |                          |
|  | 1"                      | Zo-e SafeGuard Certified w/ Argon                | WEA-N-345-00166-00003 | 0.31                  | 0.16                        | 0.35                        | 55                             |                                  |    |    |      | 1.76             | 1.5                        | 0.05                                  | 11            |                          |
|  | 1"                      | Zo-e-shield 7                                    | WEA-N-345-00090-00002 | 0.28                  | 0.15                        | 0.29                        | 59                             |                                  |    | Y  | Y    | 1.59             | 1.5                        | 0.05                                  | 14            |                          |
|  | 1"                      | Zo-e-shield 7 w/ Argon                           | WEA-N-345-00108-00002 | 0.25                  | 0.15                        | 0.29                        | 60                             | Y                                | Y  | Y  | Y    | 1.42             | 1.5                        | 0.05                                  | 17            |                          |
|  | 1"                      | Insul Low-E 240                                  | WEA-N-345-00007-00003 | 0.36                  | 0.15                        | 0.22                        | 52                             |                                  |    |    |      | 2.04             | 1.5                        | 0.05                                  | 4             |                          |
|  | 1"                      | Insul Low-E 240 w/Argon                          | WEA-N-345-00015-00003 | 0.32                  | 0.15                        | 0.22                        | 55                             |                                  |    |    |      | 1.82             | 1.5                        | 0.05                                  | 9             |                          |
|  | 1"                      | Insul Low-E 340                                  | WEA-N-345-00008-00003 | 0.35                  | 0.11                        | 0.22                        | 53                             |                                  |    |    |      | 1.99             | 1.5                        | 0.05                                  | 3             |                          |
| 1"                                     | Insul Low-E 340 w/Argon | WEA-N-345-00016-00003                            | 0.32                  | 0.11                  | 0.22                        | 55                          |                                |                                  |    |    | 1.82 | 1.5              | 0.05                       | 6                                     |               |                          |
| 1"                                     | Bronze Low E            | WEA-N-345-00002-00013                            | 0.35                  | 0.23                  | 0.30                        | 52                          |                                |                                  |    |    | 1.99 | 1.5              | 0.05                       | 10                                    |               |                          |
| 1"                                     | Bronze Low E w/Argon    | WEA-N-345-00010-00013                            | 0.32                  | 0.23                  | 0.30                        | 55                          |                                |                                  |    |    | 1.82 | 1.5              | 0.05                       | 13                                    |               |                          |