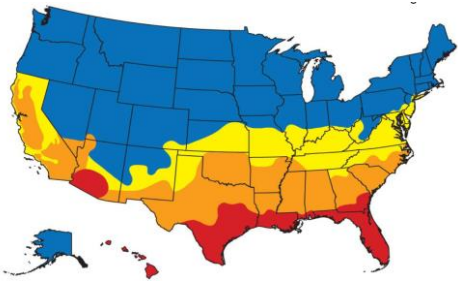
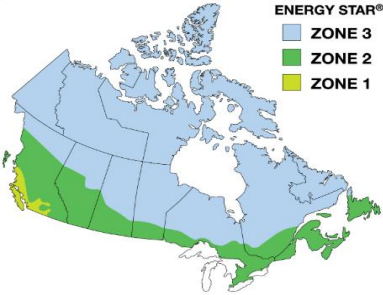


| US Qualification Criteria   | Climate Zone  | U-Value | SHGC   |                               |
|---|---------------|---------|--------|-------------------------------|
|  <p>As of January 2016</p> | Northern      | <=0.27  | Any    | Prescriptive                  |
|   |               | =0.28   | >=0.32 | Equivalent Energy Performance |
|   |               | =0.29   | >=0.37 |                               |
|   | North-Central | =0.30   | >=0.42 |                               |
|   |               | <=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/ft2 |         |    |               |

**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/3mm glass lite thicknesses.

| ENERGY PERFORMANCE DATA                    |                         |  |                       |         |                             |                             |                                |             |    |    |      |                  |                           | CANADIAN ENERGY PERFORMANCE DATA      |               | ENERGY STAR              |   |   |
|--|-------------------------|--|-----------------------|---------|-----------------------------|-----------------------------|--------------------------------|-------------|----|----|------|------------------|---------------------------|---------------------------------------|---------------|--------------------------|---|---|
| Premium Double Hung Picture Windows (8116) |                         |  |                       |         |                             |                             |                                |             |    |    |      |                  |                           | US ENERGY STAR V 6.0                  |               | CANADA ENERGY STAR v 4.1 |   |   |
| Grille Option                              | Glazing thickness       | ³NFRC Total Unit Calculations<br>⁴Glazing Option | CPD #                 | U-Value | Solar Heat Gain Coefficient | Visible Light Transmittance | Condensation Resistance Rating | ENERGY STAR |    |    |      | U-Value (metric) | Maximum Air Leakage Ls/m² | Air Infiltration/Exfiltration Average | Energy Rating | ENERGY STAR              |   |   |
|  |                         |  |                       |         |                             |                             |                                | N           | NC | SC | S    |                  |                           |                                       |               | 1                        | 2 | 3 |
| No GIA or SDL                              | 3/4"                    | Clear Insul                                      | WEA-N-291-01585-00001 | 0.46    | 0.58                        | 0.61                        | 44                             |             |    |    |      | 2.61             | 0.6                       | 0.01                                  | 16            |                          |   |   |
|  | 3/4"                    | Insul Low-E                                      | WEA-N-291-01586-00001 | 0.32    | 0.29                        | 0.52                        | 55                             |             |    |    |      | 1.82             | 0.6                       | 0.01                                  | 17            |                          |   |   |
|  | 3/4"                    | Insul Low E w/Argon                              | WEA-N-291-01592-00001 | 0.29    | 0.29                        | 0.52                        | 59                             |             |    | Y  |      | 1.65             | 0.6                       | 0.01                                  | 21            |                          |   |   |
|  | 3/4"                    | Passive Solar                                    | WEA-N-291-01061-00001 | 0.33    | 0.48                        | 0.59                        | 56                             |             |    |    |      | 1.87             | 0.6                       | 0.10                                  | 27            | Y                        |   |   |
|  | 3/4"                    | Passive Solar w/Argon                            | WEA-N-291-01118-00001 | 0.30    | 0.48                        | 0.59                        | 60                             | Y           |    |    |      | 1.70             | 0.6                       | 0.10                                  | 30            | Y                        | Y |   |
|  | 3/4"                    | Passive Solar Extreme                            | WEA-N-291-01065-00001 | 0.28    | 0.46                        | 0.57                        | 43                             | Y           |    |    |      | 1.59             | 0.6                       | 0.10                                  | 32            | Y                        | Y |   |
|  | 3/4"                    | Passive Solar Extreme w/Argon                    | WEA-N-291-01122-00001 | 0.25    | 0.47                        | 0.57                        | 47                             | Y           |    |    |      | 1.42             | 0.6                       | 0.10                                  | 36            | Y                        | Y | Y |
|  | 3/4"                    | Zo-e-shield 5                                    | WEA-N-291-01587-00001 | 0.32    | 0.21                        | 0.46                        | 56                             |             |    |    | Y    | 1.82             | 0.6                       | 0.01                                  | 12            |                          |   |   |
|  | 3/4"                    | Zo-e-shield 5 w/ Argon                           | WEA-N-291-01593-00001 | 0.29    | 0.21                        | 0.46                        | 59                             |             |    | Y  | Y    | 1.65             | 0.6                       | 0.01                                  | 16            |                          |   |   |
|  | 3/4"                    | Zo-e-shield 5 Extreme                            | WEA-N-291-01077-00001 | 0.27    | 0.20                        | 0.47                        | 44                             | Y           | Y  | Y  | Y    | 1.53             | 0.6                       | 0.10                                  | 18            | Y                        |   |   |
|  | 3/4"                    | Zo-e-shield 5 Extreme w/ Argon                   | WEA-N-291-01134-00001 | 0.24    | 0.20                        | 0.47                        | 48                             | Y           | Y  | Y  | Y    | 1.36             | 0.6                       | 0.10                                  | 22            | Y                        | Y |   |
|  | 3/4"                    | Zo-e-shield 6                                    | WEA-N-291-01087-00001 | 0.34    | 0.21                        | 0.47                        | 53                             |             |    |    | Y    | 1.93             | 0.6                       | 0.10                                  | 10            |                          |   |   |
|  | 3/4"                    | Zo-e-shield 6 w/ Argon                           | WEA-N-291-01141-00001 | 0.29    | 0.21                        | 0.47                        | 57                             |             |    | Y  | Y    | 1.65             | 0.6                       | 0.10                                  | 16            |                          |   |   |
|  | 3/4"                    | Zo-e SafeGuard Certified                         | WEA-N-291-01096-00001 | 0.34    | 0.21                        | 0.47                        | 54                             |             |    |    | Y    | 1.93             | 0.6                       | 0.10                                  | 10            |                          |   |   |
|  | 3/4"                    | Zo-e SafeGuard Certified w/ Argon                | WEA-N-291-01150-00001 | 0.29    | 0.21                        | 0.47                        | 58                             |             |    | Y  | Y    | 1.65             | 0.6                       | 0.10                                  | 16            |                          |   |   |
|  | 1"                      | Zo-e-shield 7                                    | WEA-N-291-01102-00001 | 0.26    | 0.19                        | 0.38                        | 63                             | Y           | Y  | Y  | Y    | 1.48             | 0.6                       | 0.10                                  | 18            | Y                        |   |   |
|  | 1"                      | Zo-e-shield 7 w/ Argon                           | WEA-N-291-01156-00001 | 0.22    | 0.19                        | 0.38                        | 64                             | Y           | Y  | Y  | Y    | 1.25             | 0.6                       | 0.10                                  | 23            | Y                        | Y |   |
|  | 3/4"                    | Insul Low-E 240                                  | WEA-N-291-01069-00001 | 0.33    | 0.20                        | 0.30                        | 56                             |             |    |    | Y    | 1.87             | 0.6                       | 0.10                                  | 10            |                          |   |   |
|  | 3/4"                    | Insul Low-E 240 w/Argon                          | WEA-N-291-01126-00001 | 0.29    | 0.19                        | 0.30                        | 60                             |             |    | Y  | Y    | 1.65             | 0.6                       | 0.10                                  | 15            |                          |   |   |
|  | 3/4"                    | Insul Low-E 340                                  | WEA-N-291-01073-00001 | 0.32    | 0.14                        | 0.29                        | 57                             |             |    |    | Y    | 1.82             | 0.6                       | 0.10                                  | 8             |                          |   |   |
| 3/4"                                       | Insul Low-E 340 w/Argon | WEA-N-291-01130-00001                            | 0.28                  | 0.14    | 0.29                        | 61                          |                                |             | Y  | Y  | 1.59 | 0.6              | 0.10                      | 13                                    |               |                          |   |   |
| 3/4"                                       | Bronze Low E            | WEA-N-291-01053-00011                            | 0.32                  | 0.30    | 0.39                        | 57                          |                                |             |    |    | 1.82 | 0.6              | 0.10                      | 17                                    |               |                          |   |   |
| 3/4"                                       | Bronze Low E w/Argon    | WEA-N-291-01110-00011                            | 0.29                  | 0.30    | 0.39                        | 60                          |                                |             | Y  |    | 1.65 | 0.6              | 0.10                      | 21                                    |               |                          |   |   |
| Less Than 1" GIA or SDL                    | 3/4"                    | Clear Insul                                      | WEA-N-291-01585-00002 | 0.46    | 0.52                        | 0.54                        | 44                             |             |    |    |      | 2.61             | 0.6                       | 0.01                                  | 13            |                          |   |   |
|  | 3/4"                    | Insul Low-E                                      | WEA-N-291-01586-00002 | 0.32    | 0.26                        | 0.46                        | 55                             |             |    |    |      | 1.82             | 0.6                       | 0.01                                  | 15            |                          |   |   |
|  | 3/4"                    | Insul Low E w/Argon                              | WEA-N-291-01592-00002 | 0.29    | 0.26                        | 0.46                        | 59                             |             |    | Y  |      | 1.65             | 0.6                       | 0.01                                  | 19            |                          |   |   |
|  | 3/4"                    | Passive Solar                                    | WEA-N-291-01061-00002 | 0.33    | 0.43                        | 0.52                        | 56                             |             |    |    |      | 1.87             | 0.6                       | 0.10                                  | 24            |                          |   |   |
|  | 3/4"                    | Passive Solar w/Argon                            | WEA-N-291-01118-00002 | 0.30    | 0.43                        | 0.52                        | 60                             | Y           |    |    |      | 1.70             | 0.6                       | 0.10                                  | 27            | Y                        |   |   |
|  | 3/4"                    | Passive Solar Extreme                            | WEA-N-291-01065-00002 | 0.28    | 0.42                        | 0.51                        | 43                             | Y           |    |    |      | 1.59             | 0.6                       | 0.10                                  | 29            | Y                        | Y |   |
|  | 3/4"                    | Passive Solar Extreme w/Argon                    | WEA-N-291-01122-00002 | 0.25    | 0.42                        | 0.51                        | 47                             | Y           |    |    |      | 1.42             | 0.6                       | 0.10                                  | 33            | Y                        | Y |   |
|  | 3/4"                    | Zo-e-shield 5                                    | WEA-N-291-01587-00002 | 0.32    | 0.19                        | 0.41                        | 56                             |             |    |    | Y    | 1.82             | 0.6                       | 0.01                                  | 11            |                          |   |   |
|  | 3/4"                    | Zo-e-shield 5 w/ Argon                           | WEA-N-291-01593-00002 | 0.29    | 0.19                        | 0.41                        | 59                             |             |    | Y  | Y    | 1.65             | 0.6                       | 0.01                                  | 15            |                          |   |   |
|  | 3/4"                    | Zo-e-shield 5 Extreme                            | WEA-N-291-01077-00002 | 0.27    | 0.18                        | 0.42                        | 44                             | Y           | Y  | Y  | Y    | 1.53             | 0.6                       | 0.10                                  | 17            | Y                        |   |   |
|  | 3/4"                    | Zo-e-shield 5 Extreme w/ Argon                   | WEA-N-291-01134-00002 | 0.24    | 0.18                        | 0.42                        | 48                             | Y           | Y  | Y  | Y    | 1.36             | 0.6                       | 0.10                                  | 20            | Y                        | Y |   |
|  | 3/4"                    | Zo-e-shield 6                                    | WEA-N-291-01088-00001 | 0.36    | 0.19                        | 0.42                        | 53                             |             |    |    | Y    | 2.04             | 0.6                       | 0.10                                  | 6             |                          |   |   |
|  | 3/4"                    | Zo-e-shield 6 w/ Argon                           | WEA-N-291-01142-00001 | 0.31    | 0.19                        | 0.42                        | 57                             |             |    |    | Y    | 1.76             | 0.6                       | 0.10                                  | 12            |                          |   |   |
|  | 3/4"                    | Zo-e SafeGuard Certified                         | WEA-N-291-01097-00001 | 0.36    | 0.19                        | 0.42                        | 54                             |             |    |    | Y    | 2.04             | 0.6                       | 0.10                                  | 6             |                          |   |   |
|  | 3/4"                    | Zo-e SafeGuard Certified w/ Argon                | WEA-N-291-01151-00001 | 0.31    | 0.19                        | 0.42                        | 58                             |             |    |    | Y    | 1.76             | 0.6                       | 0.10                                  | 12            |                          |   |   |
|  | 1"                      | Zo-e-shield 7                                    | WEA-N-291-01103-00001 | 0.26    | 0.17                        | 0.34                        | 63                             | Y           | Y  | Y  | Y    | 1.48             | 0.6                       | 0.10                                  | 17            | Y                        |   |   |
|  | 1"                      | Zo-e-shield 7 w/ Argon                           | WEA-N-291-01157-00001 | 0.22    | 0.17                        | 0.34                        | 64                             | Y           | Y  | Y  | Y    | 1.25             | 0.6                       | 0.10                                  | 22            | Y                        | Y |   |
|  | 3/4"                    | Insul Low-E 240                                  | WEA-N-291-01069-00002 | 0.33    | 0.18                        | 0.26                        | 56                             |             |    |    | Y    | 1.87             | 0.6                       | 0.10                                  | 9             |                          |   |   |
|  | 3/4"                    | Insul Low-E 240 w/Argon                          | WEA-N-291-01126-00002 | 0.29    | 0.17                        | 0.26                        | 60                             |             |    | Y  | Y    | 1.65             | 0.6                       | 0.10                                  | 13            |                          |   |   |
|  | 3/4"                    | Insul Low-E 340                                  | WEA-N-291-01073-00002 | 0.32    | 0.13                        | 0.26                        | 57                             |             |    |    | Y    | 1.82             | 0.6                       | 0.10                                  | 7             |                          |   |   |
| 3/4"                                       | Insul Low-E 340 w/Argon | WEA-N-291-01130-00002                            | 0.28                  | 0.12    | 0.26                        | 61                          |                                |             | Y  | Y  | 1.59 | 0.6              | 0.10                      | 12                                    |               |                          |   |   |
| 3/4"                                       | Bronze Low E            | WEA-N-291-01053-00012                            | 0.32                  | 0.27    | 0.35                        | 57                          |                                |             |    |    | 1.82 | 0.6              | 0.10                      | 16                                    |               |                          |   |   |
| 3/4"                                       | Bronze Low E w/Argon    | WEA-N-291-01110-00012                            | 0.29                  | 0.27    | 0.35                        | 60                          |                                |             | Y  |    | 1.65 | 0.6              | 0.10                      | 19                                    |               |                          |   |   |
| 1" Or Over GIA or SDL                      | 3/4"                    | Clear Insul                                      | WEA-N-291-01585-00003 | 0.46    | 0.46                        | 0.48                        | 44                             |             |    |    |      | 2.61             | 0.6                       | 0.01                                  | 9             |                          |   |   |
|  | 3/4"                    | Insul Low-E                                      | WEA-N-291-01586-00003 | 0.32    | 0.23                        | 0.41                        | 55                             |             |    |    | Y    | 1.82             | 0.6                       | 0.01                                  | 13            |                          |   |   |
|  | 3/4"                    | Insul Low E w/Argon                              | WEA-N-291-01592-00003 | 0.29    | 0.23                        | 0.41                        | 59                             |             |    | Y  | Y    | 1.65             | 0.6                       | 0.01                                  | 17            |                          |   |   |
|  | 3/4"                    | Passive Solar                                    | WEA-N-291-01061-00003 | 0.33    | 0.38                        | 0.46                        | 56                             |             |    |    |      | 1.87             | 0.6                       | 0.10                                  | 21            |                          |   |   |
|  | 3/4"                    | Passive Solar w/Argon                            | WEA-N-291-01118-00003 | 0.30    | 0.38                        | 0.46                        | 60                             |             |    | Y  |      | 1.70             | 0.6                       | 0.10                                  | 25            |                          |   |   |
|  | 3/4"                    | Passive Solar Extreme                            | WEA-N-291-01065-00003 | 0.28    | 0.37                        | 0.45                        | 43                             | Y           | Y  |    |      | 1.59             | 0.6                       | 0.10                                  | 26            | Y                        |   |   |
|  | 3/4"                    | Passive Solar Extreme w/Argon                    | WEA-N-291-01122-00003 | 0.25    | 0.37                        | 0.45                        | 47                             | Y           | Y  |    |      | 1.42             | 0.6                       | 0.10                                  | 30            | Y                        | Y |   |
|  | 3/4"                    | Zo-e-shield 5                                    | WEA-N-291-01587-00003 | 0.32    | 0.17                        | 0.36                        | 56                             |             |    |    | Y    | 1.82             | 0.6                       | 0.01                                  | 10            |                          |   |   |
|  | 3/4"                    | Zo-e-shield 5 w/ Argon                           | WEA-N-291-01593-00003 | 0.29    | 0.17                        | 0.36                        | 59                             |             |    | Y  | Y    | 1.65             | 0.6                       | 0.01                                  | 14            |                          |   |   |
|  | 3/4"                    | Zo-e-shield 5 Extreme                            | WEA-N-291-01077-00003 | 0.27    | 0.17                        | 0.37                        | 44                             | Y           | Y  | Y  | Y    | 1.53             | 0.6                       | 0.10                                  | 16            | Y                        |   |   |
|  | 3/4"                    | Zo-e-shield 5 Extreme w/ Argon                   | WEA-N-291-01134-00003 | 0.24    | 0.16                        | 0.37                        | 48                             | Y           | Y  | Y  | Y    | 1.36             | 0.6                       | 0.10                                  | 19            | Y                        |   |   |
|  | 3/4"                    | Zo-e-shield 6                                    | WEA-N-291-01088-00002 | 0.36    | 0.17                        | 0.37                        | 53                             |             |    |    | Y    | 2.04             | 0.6                       | 0.10                                  | 5             |                          |   |   |
|  | 3/4"                    | Zo-e-shield 6 w/ Argon                           | WEA-N-291-01142-00002 | 0.31    | 0.17                        | 0.37                        | 57                             |             |    |    | Y    | 1.76             | 0.6                       | 0.10                                  | 11            |                          |   |   |
|  | 3/4"                    | Zo-e SafeGuard Certified                         | WEA-N-291-01097-00002 | 0.36    | 0.17                        | 0.37                        | 54                             |             |    |    | Y    | 2.04             | 0.6                       | 0.10                                  | 5             |                          |   |   |
|  | 3/4"                    | Zo-e SafeGuard Certified w/ Argon                | WEA-N-291-01151-00002 | 0.31    | 0.17                        | 0.37                        | 58                             |             |    |    | Y    | 1.76             | 0.6                       | 0.10                                  | 11            |                          |   |   |
|  | 1"                      | Zo-e-shield 7                                    | WEA-N-291-01103-00002 | 0.26    | 0.16                        | 0.30                        | 63                             | Y           | Y  | Y  | Y    | 1.48             | 0.6                       | 0.10                                  | 17            | Y                        |   |   |
|  | 1"                      | Zo-e-shield 7 w/ Argon                           | WEA-N-291-01157-00002 | 0.22    | 0.15                        | 0.30                        | 64                             | Y           | Y  | Y  | Y    | 1.25             | 0.6                       | 0.10                                  | 21            | Y                        | Y |   |
|  | 3/4"                    | Insul Low-E 240                                  | WEA-N-291-01069-00003 | 0.33    | 0.16                        | 0.23                        | 56                             |             |    |    | Y    | 1.87             | 0.6                       | 0.10                                  | 8             |                          |   |   |
|  | 3/4"                    | Insul Low-E 240 w/Argon                          | WEA-N-291-01126-00003 | 0.29    | 0.16                        | 0.23                        | 60                             |             |    | Y  | Y    | 1.65             | 0.6                       | 0.10                                  | 13            |                          |   |   |
|  | 3/4"                    | Insul Low-E 340                                  | WEA-N-291-01073-00003 | 0.32    | 0.12                        | 0.23                        | 57                             |             |    |    | Y    | 1.82             | 0.6                       | 0.10                                  | 7             |                          |   |   |
| 3/4"                                       | Insul Low-E 340 w/Argon | WEA-N-291-01130-00003                            | 0.28                  | 0.11    | 0.23                        | 61                          |                                |             | Y  | Y  | 1.59 | 0.6              | 0.10                      | 11                                    |               |                          |   |   |
| 3/4"                                       | Bronze Low E            | WEA-N-291-01053-00013                            | 0.32                  | 0.24    | 0.31                        | 57                          |                                |             |    | Y  | 1.82 | 0.6              | 0.10                      | 14                                    |               |                          |   |   |
| 3/4"                                       | Bronze Low E w/Argon    | WEA-N-291-01110-00013                            | 0.29                  | 0.24    | 0.31                        | 60                          |                                |             | Y  | Y  | 1.65 | 0.6              | 0.10                      | 18                                    |               |                          |   |   |