

## TOTAL WINDOW PERFORMANCE

Total window performance measures the centre of glass, the largest area for heat gain and loss, as well as the edge of the glass and the window's frame to provide an overall U-factor, solar heat gain coefficient and condensation resistance rating.

**Note:** Information presented is based on 3mm glazing. Number may vary when other glass thicknesses and tinted glazings are used. Please consult your sales representative for more details. Data for grids < 25mm are based on grilles between glass. Data for grids ≥ 25mm are based on SDL's with shadow bars between glass. U-Factor<sup>1</sup>: Btu/h·ft<sup>2</sup>·°F (imperial) U-Factor<sup>2</sup>: W/m<sup>2</sup>·K (metric).

| January 2020 - Qualifying Criteria |                                       |                 |    |                                                                             |                 |
|------------------------------------|---------------------------------------|-----------------|----|-----------------------------------------------------------------------------|-----------------|
| Windows                            |                                       |                 |    |                                                                             |                 |
| ENERGY STAR®                       | Compliance Paths                      |                 |    |                                                                             |                 |
|                                    | Energy Rating (ER)                    | Max Air Leakage | or | U-Factor                                                                    | Max Air Leakage |
|                                    | Minimum ER (Dimensionless)<br>Maximum |                 |    | Maximum U-Factor<br>W/m <sup>2</sup> ·K<br>(0.35 Btu/h·ft <sup>2</sup> ·°F) |                 |
|                                    | 34                                    | 1.5             | or | 1.22 (0.21)                                                                 | 1.5             |
| ENERGY STAR®<br>Most Efficient     | 40                                    | 1.5             | or | 1.05 (0.18)                                                                 | 1.5             |



Windows and doors that perform efficiently lower energy costs, create a more comfortable home, and decrease strain on the environment. As a long-time ENERGY STAR® partner, JELD-WEN® of Canada remains committed to developing products that deliver these important benefits.

| Dual Glazed Low-E   |              | Dual Glazed 3MM |      |      |      |    |                                          |                  |      |      |      |    |                                          |
|---------------------|--------------|-----------------|------|------|------|----|------------------------------------------|------------------|------|------|------|----|------------------------------------------|
|                     |              | SunFlow™ Argon  |      |      |      |    |                                          | SunResist™ Argon |      |      |      |    |                                          |
| Type                | Grilles      | U1              | U2   | SHGC | VT   | ER | ENERGY STAR (ES)<br>Most Efficient (ES+) | U1               | U2   | SHGC | VT   | ER | ENERGY STAR (ES)<br>Most Efficient (ES+) |
| Awning<br>JWC8500   | Without      | 0.26            | 1.48 | 0.51 | 0.59 | 37 | ES                                       | 0.25             | 1.42 | 0.20 | 0.48 | 20 | -                                        |
|                     | With < 25 mm | 0.26            | 1.48 | 0.46 | 0.53 | 34 | ES                                       | 0.26             | 1.48 | 0.19 | 0.43 | 18 | -                                        |
|                     | With ≥ 25 mm | 0.28            | 1.59 | 0.42 | 0.48 | 29 | -                                        | 0.27             | 1.53 | 0.17 | 0.39 | 16 | -                                        |
| Casement<br>JWC8500 | Without      | 0.26            | 1.48 | 0.51 | 0.59 | 37 | ES                                       | 0.25             | 1.42 | 0.20 | 0.42 | 20 | -                                        |
|                     | With < 25 mm | 0.27            | 1.53 | 0.46 | 0.53 | 33 | -                                        | 0.26             | 1.48 | 0.19 | 0.43 | 18 | -                                        |
|                     | With ≥ 25 mm | 0.28            | 1.59 | 0.42 | 0.48 | 29 | -                                        | 0.27             | 1.53 | 0.17 | 0.39 | 16 | -                                        |
| Fixed<br>JWC8500    | Without      | 0.27            | 1.53 | 0.57 | 0.66 | 39 | ES                                       | 0.25             | 1.42 | 0.23 | 0.54 | 22 | -                                        |
|                     | With < 25 mm | 0.28            | 1.59 | 0.51 | 0.59 | 34 | ES                                       | 0.27             | 1.53 | 0.21 | 0.48 | 18 | -                                        |
|                     | With ≥ 25 mm | 0.29            | 1.65 | 0.46 | 0.52 | 30 | -                                        | 0.28             | 1.59 | 0.19 | 0.43 | 16 | -                                        |
| Slider              | Without      | 0.31            | 1.75 | 0.53 | 0.61 | 31 | -                                        | 0.29             | 1.67 | 0.21 | 0.50 | 14 | -                                        |
|                     | With < 25 mm | 0.31            | 1.75 | 0.48 | 0.54 | 28 | -                                        | 0.29             | 1.67 | 0.19 | 0.44 | 13 | -                                        |
|                     | With ≥ 25 mm | 0.31            | 1.75 | 0.48 | 0.54 | 28 | -                                        | 0.29             | 1.67 | 0.19 | 0.44 | 13 | -                                        |
| Single Hung         | Without      | 0.31            | 1.75 | 0.52 | 0.60 | 31 | -                                        | 0.29             | 1.67 | 0.21 | 0.49 | 14 | -                                        |
|                     | With < 25 mm | 0.31            | 1.75 | 0.47 | 0.53 | 27 | -                                        | 0.29             | 1.67 | 0.19 | 0.43 | 13 | -                                        |
|                     | With ≥ 25 mm | 0.31            | 1.75 | 0.47 | 0.53 | 27 | -                                        | 0.29             | 1.67 | 0.19 | 0.43 | 13 | -                                        |

U-Factor<sup>1</sup>: Btu/h·ft<sup>2</sup>·°F (imperial)

U-Factor<sup>2</sup>: W/m<sup>2</sup>·K (metric)

| Triple Glazed Low-E<br>(2 coats) |              | Triple Glazed 3MM  |      |      |      |    |                                                |                      |      |      |      |    |                                                |
|----------------------------------|--------------|--------------------|------|------|------|----|------------------------------------------------|----------------------|------|------|------|----|------------------------------------------------|
|                                  |              | 2 x SunFlow™ Argon |      |      |      |    |                                                | 2 x SunResist™ Argon |      |      |      |    |                                                |
| Type                             | Grilles      | U1                 | U2   | SHGC | VT   | ER | ENERGY STAR<br>(ES)<br>Most Efficient<br>(ES+) | U1                   | U2   | SHGC | VT   | ER | ENERGY STAR<br>(ES)<br>Most Efficient<br>(ES+) |
| Awning<br>JWC8500                | Without      | 0.16               | 0.91 | 0.42 | 0.52 | 44 | ES+                                            | 0.16                 | 0.91 | 0.18 | 0.42 | 30 | ES+                                            |
|                                  | With < 25 mm | 0.17               | 0.97 | 0.38 | 0.47 | 40 | ES+                                            | 0.16                 | 0.91 | 0.17 | 0.38 | 30 | ES+                                            |
|                                  | With ≥ 25 mm | 0.18               | 1.02 | 0.35 | 0.42 | 37 | ES+                                            | 0.18                 | 1.02 | 0.16 | 0.34 | 26 | ES+                                            |
| Casement<br>JWC8500              | Without      | 0.16               | 0.91 | 0.42 | 0.52 | 44 | ES+                                            | 0.16                 | 0.91 | 0.18 | 0.42 | 30 | ES+                                            |
|                                  | With < 25 mm | 0.17               | 0.97 | 0.38 | 0.47 | 40 | ES+                                            | 0.16                 | 0.91 | 0.17 | 0.38 | 30 | ES+                                            |
|                                  | With ≥ 25 mm | 0.18               | 1.02 | 0.35 | 0.42 | 37 | ES+                                            | 0.18                 | 1.02 | 0.16 | 0.34 | 26 | ES+                                            |
| Fixed<br>JWC8500                 | Without      | 0.16               | 0.91 | 0.47 | 0.58 | 47 | ES+                                            | 0.15                 | 0.85 | 0.21 | 0.47 | 33 | ES+                                            |
|                                  | With < 25 mm | 0.17               | 0.97 | 0.42 | 0.52 | 43 | ES+                                            | 0.16                 | 0.91 | 0.21 | 0.47 | 31 | ES+                                            |
|                                  | With ≥ 25 mm | 0.19               | 1.08 | 0.38 | 0.46 | 38 | ES+                                            | 0.18                 | 1.02 | 0.17 | 0.38 | 27 | ES+                                            |

U-Factor<sup>1</sup>: Btu/h-ft<sup>2</sup>·F (imperial)

U-Factor<sup>2</sup>: W/m<sup>2</sup>·K (metric)

**Note:** Information presented is based on 3mm glazing. Number may vary when other glass thicknesses and tinted glazings are used. Please consult your sales representative for more details. Data for grids < 25mm are based on grilles between glass. Data for grids ≥ 25mm are based on SDL's with shadow bars between glass.