

## ENERGY RATINGS - CANADA

| Window Style<br>(Model)  | Energy Rating (ER)<br>Canadian Energy Star Program |    |                  |   |   |      |      |                       |                         |            |            |
|--|--|----|------------------|---|---|------|------|-----------------------|-------------------------|------------|------------|
|  | Glass Options                                      | ER | Energy Star Zone |   |   |      | SHGC | Visible Transmittance | Condensation Resistance | "U" Value  | "R" Value  |
|  |  |    | A                | B | C | D    |      |                       |                         | (Imperial) | (Imperial) |
| <b>Patio Door Series #3300<br/>Model 3320 / 3325</b><br><br>CAN/CGSB 82.1-M89<br>Evaluation Report # 3060325-1<br><br>Air - A3<br>Water - B3<br>Structural - C3<br>Forced Entry - F2 | <b>DUAL LITE</b>                                   |    |                  |   |   |      |      |                       |                         |            |            |
|  | Clear – air – clear                                | 17 |                  |   |   |      | 0.59 | 0.62                  | 45                      | 0.46       | 2.17       |
|  | Clear – air – clear, grille                        | 13 |                  |   |   |      | 0.52 | 0.54                  | 45                      | 0.46       | 2.17       |
|  | Clear – air – LOF (3)                              | 28 |                  |   |   |      | 0.58 | 0.59                  | 54                      | 0.36       | 2.77       |
|  | Clear – air – LOF, grille                          | 24 |                  |   |   |      | 0.51 | 0.52                  | 54                      | 0.36       | 2.77       |
|  | Clear – argon – LOF (3)                            | 33 | ●                | ● | ● |      | 0.59 | 0.59                  | 57                      | 0.33       | 3.03       |
|  | Clear – argon – LOF, grille                        | 28 | ●                | ● |   |      | 0.51 | 0.52                  | 57                      | 0.33       | 3.03       |
|  | Clear – argon/krypton – LOF (3)                    | 33 | ●                | ● | ● |      | 0.59 | 0.59                  | 58                      | 0.33       | 3.03       |
|  | Clear – argon/krypton – LOF, grille                | 29 | ●                | ● | ● |      | 0.52 | 0.52                  | 58                      | 0.33       | 3.03       |
|  | Bronze – air – clear                               | 7  |                  |   |   |      | 0.43 | 0.41                  | 45                      | 0.46       | 2.17       |
|  | Bronze – air – clear, grille                       | 5  |                  |   |   |      | 0.38 | 0.36                  | 45                      | 0.46       | 2.17       |
|  | Bronze – argon – clear                             | 10 |                  |   |   |      | 0.43 | 0.41                  | 47                      | 0.44       | 2.27       |
|  | Bronze – argon – clear, grille                     | 7  |                  |   |   |      | 0.38 | 0.36                  | 47                      | 0.44       | 2.27       |
|  | Bronze – argon/krypton – clear                     | 10 |                  |   |   |      | 0.43 | 0.41                  | 47                      | 0.44       | 2.27       |
|  | Bronze – argon/krypton – clear, grille             | 7  |                  |   |   |      | 0.38 | 0.36                  | 47                      | 0.44       | 2.27       |
|  | Bronze – air – LOF (3)                             | 19 |                  |   |   |      | 0.39 | 0.38                  | 54                      | 0.35       | 2.86       |
|  | Bronze – air – LOF, grille                         | 16 |                  |   |   |      | 0.34 | 0.33                  | 54                      | 0.35       | 2.86       |
|  | Bronze – argon – LOF (3)                           | 22 | ●                |   |   |      | 0.39 | 0.38                  | 58                      | 0.32       | 3.13       |
|  | Bronze – argon – LOF, grille                       | 20 | ●                |   |   |      | 0.34 | 0.33                  | 58                      | 0.32       | 3.13       |
|  | Bronze – argon/krypton – LOF (3)                   | 22 | ●                |   |   |      | 0.39 | 0.38                  | 58                      | 0.32       | 3.13       |
|  | Bronze – argon/krypton – LOF, grille               | 20 | ●                |   |   |      | 0.34 | 0.33                  | 58                      | 0.32       | 3.13       |
|  | Grey – air – clear                                 | 5  |                  |   |   |      | 0.39 | 0.35                  | 45                      | 0.46       | 2.17       |
|  | Grey – air – clear, grille                         | 2  |                  |   |   |      | 0.34 | 0.30                  | 45                      | 0.46       | 2.17       |
|  | Grey – argon – clear                               | 8  |                  |   |   |      | 0.39 | 0.35                  | 47                      | 0.44       | 2.27       |
|  | Grey – argon – clear, grille                       | 5  |                  |   |   |      | 0.34 | 0.30                  | 47                      | 0.44       | 2.27       |
|  | Grey – argon/krypton – clear                       | 8  |                  |   |   |      | 0.39 | 0.35                  | 47                      | 0.44       | 2.27       |
|  | Grey – argon/krypton – clear, grille               | 5  |                  |   |   |      | 0.34 | 0.30                  | 47                      | 0.44       | 2.27       |
|  | Grey – air – LOF (3)                               | 16 |                  |   |   |      | 0.34 | 0.32                  | 54                      | 0.35       | 2.86       |
|  | Grey – air – LOF, grille                           | 14 |                  |   |   |      | 0.30 | 0.28                  | 54                      | 0.35       | 2.86       |
|  | Grey – argon – LOF (3)                             | 20 | ●                |   |   |      | 0.34 | 0.32                  | 58                      | 0.32       | 3.13       |
|  | Grey – argon – LOF, grille                         | 17 | ●                |   |   |      | 0.30 | 0.28                  | 58                      | 0.32       | 3.13       |
|  | Grey – argon/krypton – LOF (3)                     | 20 | ●                |   |   |      | 0.34 | 0.32                  | 58                      | 0.32       | 3.13       |
|  | Grey – argon/krypton – LOF, grille                 | 17 | ●                |   |   |      | 0.30 | 0.28                  | 58                      | 0.32       | 3.13       |
|  | 366 – air – clear (2)                              | 12 | ●                |   |   |      | 0.21 | 0.49                  | 57                      | 0.32       | 3.13       |
|  | 366 – air – clear, grille                          | 11 | ●                |   |   |      | 0.19 | 0.43                  | 57                      | 0.32       | 3.13       |
|  | 366 – argon – clear (2)                            | 16 | ●                |   |   |      | 0.21 | 0.49                  | 60                      | 0.29       | 3.45       |
| 366 – argon – clear, grille  | 15   | ●  |                  |   |   | 0.19 | 0.43 | 60                    | 0.29                    | 3.45       |            |
| 366 – argon/krypton – clear (2)  | 16   | ●  |                  |   |   | 0.21 | 0.49 | 60                    | 0.29                    | 3.45       |            |
| 366 – argon/krypton – clear, grille  | 15   | ●  |                  |   |   | 0.19 | 0.43 | 60                    | 0.29                    | 3.45       |            |

| Centre of Glass         |                         |
|-------------------------|-------------------------|
| "U" Value<br>(Imperial) | "R" Value<br>(Imperial) |
|                         |                         |
| 0.482                   | 2.07                    |
| 0.482                   | 2.07                    |
| 0.344                   | 2.91                    |
| 0.344                   | 2.91                    |
| 0.303                   | 3.30                    |
| 0.303                   | 3.30                    |
| 0.303                   | 3.30                    |
| 0.303                   | 3.30                    |
| 0.478                   | 2.09                    |
| 0.478                   | 2.09                    |
| 0.455                   | 2.20                    |
| 0.455                   | 2.20                    |
| 0.455                   | 2.20                    |
| 0.455                   | 2.20                    |
| 0.455                   | 2.20                    |
| 0.336                   | 2.98                    |
| 0.336                   | 2.98                    |
| 0.296                   | 3.38                    |
| 0.296                   | 3.38                    |
| 0.295                   | 3.39                    |
| 0.295                   | 3.39                    |
| 0.478                   | 2.09                    |
| 0.478                   | 2.09                    |
| 0.455                   | 2.20                    |
| 0.455                   | 2.20                    |
| 0.455                   | 2.20                    |
| 0.455                   | 2.20                    |
| 0.336                   | 2.98                    |
| 0.336                   | 2.98                    |
| 0.296                   | 3.38                    |
| 0.296                   | 3.38                    |
| 0.295                   | 3.39                    |
| 0.295                   | 3.39                    |
| 0.298                   | 3.36                    |
| 0.298                   | 3.36                    |
| 0.250                   | 4.00                    |
| 0.250                   | 4.00                    |
| 0.250                   | 4.00                    |
| 0.250                   | 4.00                    |

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|--|--|----|------------------|---|---|---|------|-----------------------|-------------------------|------------|------------|
|  | Glass Options  | ER | Energy Star Zone |   |   |   | SHGC | Visible Transmittance | Condensation Resistance | "U" Value  | "R" Value  |
|  |  |    | A                | B | C | D |      |                       |                         | (Imperial) | (Imperial) |
| <b>Patio Door Series #3300<br/>Model 3320 / 3325</b><br><br>CAN/CGSB 82.1-M89<br>Evaluation Report # 3060325-1<br><br>Air - A3<br>Water - B3<br>Structural - C3<br>Forced Entry - F2 | <b>TRIPLE LITE</b>                                       |    |                  |   |   |   |      |                       |                         |            |            |
|  | Clear – argon – clear – argon – LOF (5)                  | 33 | ●                | ● | ● |   | 0.53 | 0.54                  | 59                      | 0.30       | 3.33       |
|  | Clear – argon – LOF – argon – LOF (3&5)                  | 35 | ●                | ● | ● | ● | 0.50 | 0.51                  | 60                      | 0.27       | 3.70       |
|  | Clear – argon/krypton – clear – argon/krypton – LOF (5)  | 33 | ●                | ● | ● |   | 0.53 | 0.54                  | 59                      | 0.30       | 3.33       |
|  | Clear – argon/krypton – LOF – argon/krypton – LOF (3&5)  | 35 | ●                | ● | ● | ● | 0.50 | 0.51                  | 60                      | 0.27       | 3.70       |
|  | Clear – krypton – clear – krypton – LOF (5)              | 38 | ●                | ● | ● | ● | 0.53 | 0.54                  | 59                      | 0.26       | 3.85       |
|  | Clear – krypton – LOF – krypton – LOF (3&5)              | 40 | ●                | ● | ● | ● | 0.50 | 0.51                  | 60                      | 0.23       | 4.35       |
|  | Bronze – argon – clear – argon – clear                   | 21 | ●                |   |   |   | 0.43 | 0.43                  | 55                      | 0.35       | 2.86       |
|  | Bronze – argon/krypton – clear – argon/krypton – clear   | 21 | ●                |   |   |   | 0.43 | 0.43                  | 55                      | 0.35       | 2.86       |
|  | Bronze – krypton – clear – krypton – clear               | 25 | ●                | ● |   |   | 0.43 | 0.43                  | 58                      | 0.32       | 3.13       |
|  | Bronze – argon – clear – argon – LOF (5)                 | 25 | ●                | ● |   |   | 0.39 | 0.39                  | 58                      | 0.30       | 3.33       |
|  | Bronze – argon/krypton – clear – argon/krypton – LOF (5) | 25 | ●                | ● |   |   | 0.39 | 0.39                  | 59                      | 0.30       | 3.33       |
|  | Bronze – krypton – clear – krypton – LOF (5)             | 30 | ●                | ● | ● |   | 0.39 | 0.39                  | 59                      | 0.26       | 3.85       |
|  | Bronze – argon – LOF – argon – LOF (3&5)                 | 28 | ●                | ● |   |   | 0.37 | 0.36                  | 59                      | 0.27       | 3.70       |
|  | Bronze – argon/krypton – LOF – argon/krypton – LOF (3&5) | 28 | ●                | ● |   |   | 0.37 | 0.36                  | 59                      | 0.27       | 3.70       |
|  | Bronze – krypton – LOF – krypton – LOF (3&5)             | 33 | ●                | ● | ● |   | 0.37 | 0.36                  | 59                      | 0.23       | 4.35       |
|  | Grey – argon – clear – argon – clear                     | 20 | ●                |   |   |   | 0.41 | 0.39                  | 55                      | 0.35       | 2.86       |
|  | Grey – argon/krypton – clear – argon/krypton – clear     | 20 | ●                |   |   |   | 0.41 | 0.39                  | 55                      | 0.35       | 2.86       |
|  | Grey – krypton – clear – krypton – clear                 | 24 | ●                |   |   |   | 0.41 | 0.39                  | 58                      | 0.32       | 3.13       |
|  | Grey – argon – clear – argon – LOF (5)                   | 24 | ●                |   |   |   | 0.37 | 0.36                  | 58                      | 0.30       | 3.33       |
|  | Grey – argon/krypton – clear – argon/krypton – LOF (5)   | 24 | ●                |   |   |   | 0.37 | 0.36                  | 59                      | 0.30       | 3.33       |
|  | Grey – krypton – clear – krypton – LOF (5)               | 29 | ●                | ● | ● |   | 0.37 | 0.36                  | 59                      | 0.26       | 3.85       |
|  | Grey – argon – LOF – argon – LOF (3&5)                   | 26 | ●                | ● |   |   | 0.35 | 0.33                  | 59                      | 0.27       | 3.70       |
|  | Grey – argon/krypton – LOF – argon/krypton – LOF (3&5)   | 26 | ●                | ● |   |   | 0.35 | 0.33                  | 59                      | 0.27       | 3.70       |
|  | Grey – krypton – LOF – krypton – LOF (3&5)               | 31 | ●                | ● | ● |   | 0.35 | 0.33                  | 59                      | 0.23       | 4.35       |
|  | 366 – argon – clear – argon – clear (2)                  | 15 | ●                |   |   |   | 0.20 | 0.45                  | 59                      | 0.29       | 3.45       |
|  | 366 – argon/krypton – clear – argon/krypton – clear (2)  | 16 | ●                | ● |   |   | 0.20 | 0.45                  | 59                      | 0.28       | 3.57       |
|  | 366 – krypton – clear – krypton – clear (2)              | 21 | ●                | ● | ● |   | 0.20 | 0.45                  | 60                      | 0.24       | 4.17       |

| Centre of Glass         |                         |
|-------------------------|-------------------------|
| "U" Value<br>(Imperial) | "R" Value<br>(Imperial) |
|                         |                         |
| 0.271                   | 3.69                    |
| 0.228                   | 4.39                    |
| 0.264                   | 3.79                    |
| 0.220                   | 4.55                    |
| 0.210                   | 4.76                    |
| 0.165                   | 6.06                    |
| 0.339                   | 2.95                    |
| 0.334                   | 2.99                    |
| 0.294                   | 3.40                    |
| 0.270                   | 3.70                    |
| 0.262                   | 3.82                    |
| 0.209                   | 4.78                    |
| 0.226                   | 4.42                    |
| 0.218                   | 4.59                    |
| 0.163                   | 6.13                    |
| 0.339                   | 2.95                    |
| 0.334                   | 2.99                    |
| 0.294                   | 3.40                    |
| 0.270                   | 3.70                    |
| 0.262                   | 3.82                    |
| 0.209                   | 4.78                    |
| 0.226                   | 4.42                    |
| 0.218                   | 4.59                    |
| 0.163                   | 6.13                    |
| 0.250                   | 4.00                    |
| 0.241                   | 4.15                    |
| 0.180                   | 5.56                    |