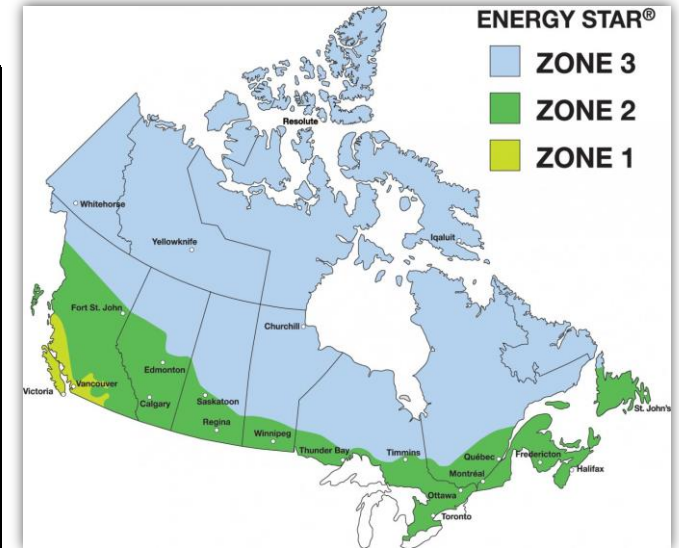




Double and Single Hung Windows - PVC Designer

Energy Performance

| Model | Details | Product Name | U-factor (W/m ² - K) | Solar heat gain (SHGC) | Energy Rating ER | ENERGY STAR zone(s) 2015 | ENERGY STAR zone(s) 2010 | NFRC |
|--|--------------|------------------|---------------------------------|------------------------|------------------|--------------------------|--------------------------|--------------------------|
| Direct link to ENERGY STAR site | | | | | | | | |
| GD-4350-CL-ARG95-SG400-SU | Th2 | Double Hung 4350 | 1.65 | 0.51 | 32 | 1 2 | A B C | MPE-M-7 |
| GD-4350-CL-ARG95-SG400-SU-GEOR | Th2 Georgian | Double Hung 4350 | 1.65 | 0.46 | 29 | 1 2 | A B C | MPE-M-7 |
| GS-4450-CL-ARG95-SG400-SU | Th2 | Single Hung 4450 | 1.65 | 0.54 | 34 | 1 2 3 | A B C D | MPE-M-13 |
| GS-4450-CL-ARG95-SG400-SU-GEOR | Th2 Georgian | Single Hung 4450 | 1.65 | 0.49 | 31 | 1 2 | A B C | MPE-M-13 |



Th2 [3]: Double [triple] glazed insulated glass unit (two [three] glass panes) - **Georgian:** integrated grilles in double [triple] glazed insulated glass unit.
U-factor: (W/m²-K) The lower the U-factor, the better the ability to resist to heat transfer.
SHGC: Solar Heat Gain Coefficient, the higher the SHGC, the more the solar heat is transmitted inside.
R-value: (1 / U-factor) A high R-value indicates a better heat resistance, thus more effective insulation.
 The values are determined according to the procedure of the National Fenestration Rating Council (NFRC).
ER: The Energy Rating is the result of a formula taking into account the U-value, the SHGC and the airtightness of the product. The ER value measures the overall performance of a window. The higher the value, the better the product efficiency in terms of energy.

Structural Performance

PERFORMANCE TESTING IN ACCORDANCE WITH AAMA/WDMA/CSA 101/1.S.2/A440-08

| | Performance grade (PG) | Airtightness | Water tightness | Wind load resistance | Screen resistance | Resistance to forced entry | Usability | Structural test |
|------------------------------------|------------------------|--------------|-----------------|----------------------|-------------------|----------------------------|------------|-----------------|
| Double Hung Windows - PVC Designer | R-PG60-H | A3 / F | B5 | C3 | S1 | F20 | Successful | Successful |
| Single Hung Windows - PVC Designer | R-PG60-H | A3 | B4 | C4 | S1 | F20 | Successful | Successful |

PG: Performance Grade from the NAFS-08 harmonized standard (North American Fenestration Standard) for a given size on a scale from PG15 to PG100. The higher the value is, the better the product efficiency.
Airtightness: Resistance to air exfiltration/infiltration on a scale ranging from A1 to A3. The higher the value, the greater the sealing.
Water tightness: Resistance to water infiltration on a scale ranging from B1 to B7. The higher the value, the greater the sealing.
Wind load resistance: Resistance to wind pressures on a scale ranging from C1 to C5 without breakage or permanent deformation. The higher the value, the greater the resistance.
Screen resistance: Resistance rating without damage or permanent deformation while remaining firmly attached to the window under a force of 60 Newtons outwards.
Resistance to forced entry: Capacity when locked to withstand a forced entry under specified load and conditions for a rating of F10 or F20. The higher the value, the greater the resistance.
Usability: Test for measuring the force required to initiate and maintain the opening movement of the window or the door.
Structural test: Structural test pressure (STP) [greater than values specified in pounds per square foot (psf) or in pascals (Pa)] supported before permanent deformation measured on the jamb of the sash. Maximum values indicated.