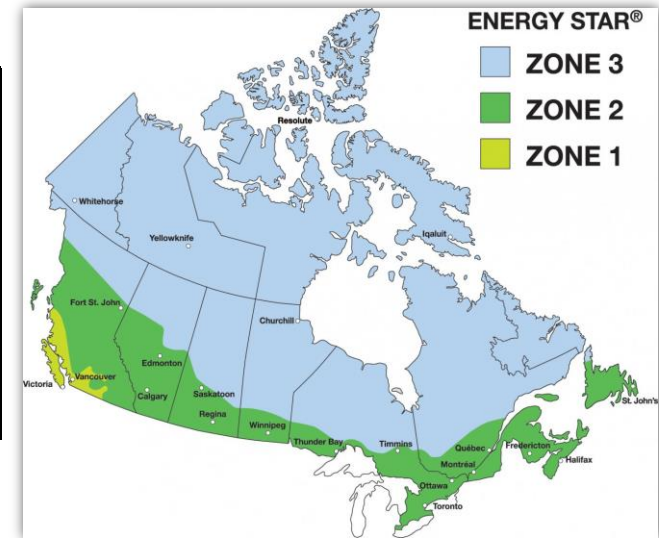




Double and Single Hung Windows - PVC Performance

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								
	Th2	Double Hung 5350	1.65	0.54	34	1 2 3	A B C D	
	Th2 Georgian	Double Hung 5350	1.65	0.48	31	1 2	A B C	
GS-5450-CL-ARG95-SG400-SU	Th2	Single Hung 5450	1.65	0.55	35	1 2 3	A B C D	MPE-M-25
GS-5450-CL-ARG95-SG400-SU-GEOR	Th2 Georgian	Single Hung 5450	1.65	0.5	32	1 2	A B C	MPE-M-25



Th2: Double glazed insulated glass unit (two glass panes) - **Georgian:** integrated grilles in double 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 Performance	R-PG55-H	A3	B4	C4	S1	F20	Successful	Successful
Single Hung Windows - PVC Performance	R-PG75-H	A3	B5	C5	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.