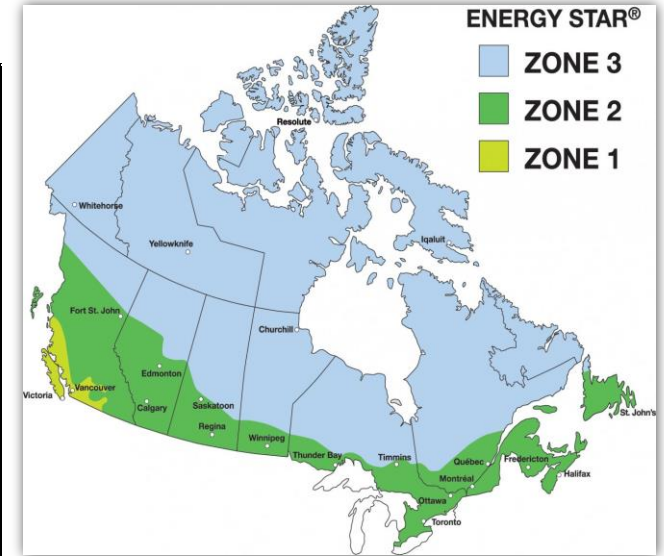




# Casements - PVC Designer

## Energy Performance

Model	Details	Product Name	U-factor (W/m <sup>2</sup> - K)	Solar heat gain (SHGC)	Energy Rating ER	ENERGY STAR zone(s) 2015	ENERGY STAR zone(s) 2010	NFRC
<a href="#">B-3000/4000-CL-ARG95-SG400-SU-GEOR</a>	Th2 Georgian	Casement 3000/4000	1.53	0.41	30	1   2	A   B   C	<a href="#">MPE-M-5</a>
<a href="#">B-3000/4000-CL-ARG95-SG400-SU</a>	Th2	Casement 3000/4000	1.53	0.45	32	1   2	A   B   C	<a href="#">MPE-M-5</a>
<a href="#">B-3000/4000-CL-ARG95-CL-ARG95-SG400-SU-GEOR</a>	Th3 Georgian	Casement 3000/4000	1.31	0.38	33	1   2	A   B   C	<a href="#">MPE-M-5</a>
<a href="#">B-3000/4000-CL-ARG95-CL-ARG95-SG400-SU</a>	Th3	Casement 3000/4000	1.25	0.42	37	1   2   3	A   B   C   D	<a href="#">MPE-M-5</a>
<a href="#">BF-3100/4100-CL-ARG95-SG400-SU-GEOR</a>	Th2 Georgian	Fixed Casement 3100/4100	1,59	0,49	33	1   2	A   B   C   D	<a href="#">MPE-M-4</a>
<a href="#">BF-3100/4100-CL-ARG95-SG400-SU</a>	Th2	Fixed Casement 3100/4100	1,59	0,54	36	1   2   3	A   B   C   D	<a href="#">MPE-M-4</a>
<a href="#">BF-3100/4100-CL-ARG95-CL-ARG95-SG400-SU-GEOR</a>	Th3 Georgian	Fixed Casement 3100/4100	1.31	0.45	37	1   2   3	A   B   C   D	<a href="#">MPE-M-4</a>
<a href="#">BF-3100/4100-CL-ARG95-CL-ARG95-SG400-SU</a>	Th3	Fixed Casement 3100/4100	1.25	0.5	41	1   2   3	A   B   C   D	<a href="#">MPE-M-4</a>



**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/m<sup>2</sup>-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/I.S.2/A440-08

	Performance grade (PG)	Airtightness	Water tightness	Wind load resistance	Screen resistance	Resistance to forced entry	Usability	Structural test
Casements - PVC Designer	CW-PG80-C	A3	B7	C5	S1	F20	Successful	Successful
Fixed Casements - PVC Designer	CW-PG100-FW	Fixed	B7	C5	-	Réussi	-	100

**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.