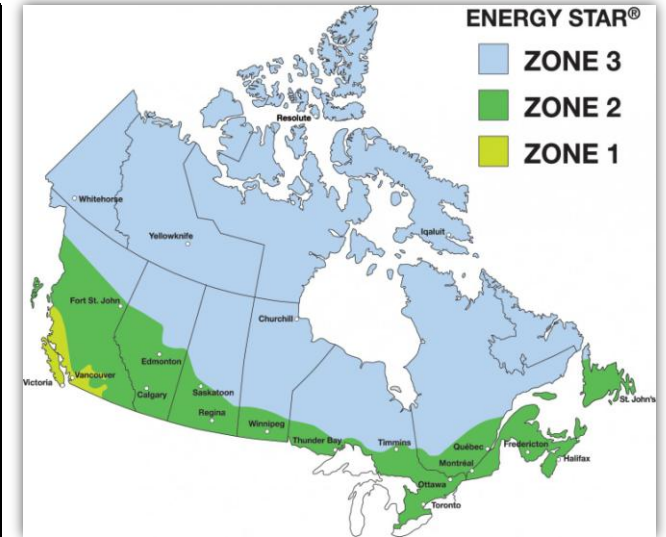




# Casements - Wood - Exterior aluminum cladding

## 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="#">BFR-SG400-ARG-CL-ARG-SG400-SV</a>	Th3 Sans SDL	Fixed Casement Alu/Clad	1.08	0.45	42	1 2 3	A   B   C   D	<a href="#">MPE-M-30</a>
<a href="#">BFR-SG400-ARG-CL-ARG-SG400-SV-SDL&lt;1"</a>	Th3 SDL 22mm	Fixed Casement Alu/Clad	1.08	0.4	39	1   2   3	A   B   C   D	<a href="#">MPE-M-30</a>
<a href="#">BFR-SG400-ARG-CL-ARG-SG400-SV-SDL&gt;1"</a>	Th3 SDL 40mm	Fixed Casement Alu/Clad	1.08	0.36	37	1   2   3	A   B   C   D	<a href="#">MPE-M-30</a>
<a href="#">BFR-SG400-ARG-CL-ARG-SG400-SV-CARR</a>	Th3 Georgien	Fixed Casement Alu/Clad	1.08	0.4	39	1   2   3	A   B   C   D	<a href="#">MPE-M-30</a>
<a href="#">BR-SG400-ARG-CL-ARG-SG400-SV</a>	Th3 Sans SDL	Casement Alu/Clad	1.14	0.39	37	1   2   3	A   B   C   D	<a href="#">MPE-M-30</a>
<a href="#">BR-SG400-ARG-CL-ARG-SG400-SV-SDL&lt;1"</a>	Th3 SDL 22mm	Casement Alu/Clad	1.14	0.35	35	1   2   3	A   B   C   D	<a href="#">MPE-M-30</a>
<a href="#">BR-SG400-ARG-CL-ARG-SG400-SV-SDL&gt;1"</a>	Th3 SDL 40mm	Casement Alu/Clad	1.14	0.32	33	1   2   3	A   B   C   D	<a href="#">MPE-M-30</a>
<a href="#">BR-SG400-ARG-CL-ARG-SG400-SV-CARR</a>	Th3 Georgien	Casement Alu/Clad	1.14	0.35	35	1   2   3	A   B   C   D	<a href="#">MPE-M-30</a>
<a href="#">BFR-CL-ARG-CL-ARG-SG400-SV-SDL&gt;1"</a>	Th3 SDL 40mm	Fixed Casement Alu/Clad	1.25	0.42	37	1   2   3	A   B   C   D	<a href="#">MPE-M-30</a>
<a href="#">BFR-CL-ARG-CL-ARG-SV-SG400-SV-SDL&lt;1"</a>	Th3 SDL 22mm	Fixed Casement Alu/Clad	1.25	0.47	40	1   2   3	A   B   C   D	<a href="#">MPE-M-30</a>
<a href="#">BFR-CL-ARG-CL-ARG-SG400-SV</a>	Th3 Sans SDL	Fixed Casement Alu/Clad	1.25	0.52	42	1   2   3	A   B   C   D	<a href="#">MPE-M-30</a>
<a href="#">BR-CL-ARG-CL-ARG-SG400-SV</a>	Th3 Sans SDL	Casement Alu/Clad	1.31	0.45	37	1   2   3	A   B   C   D	<a href="#">MPE-M-30</a>
<a href="#">BR-CL-ARG-CL-ARG-SV-SG400-SV-SDL&lt;1"</a>	Th3 SDL 22mm	Casement Alu/Clad	1.31	0.41	35	1   2   3	A   B   C   D	<a href="#">MPE-M-30</a>
<a href="#">BR-CL-ARG-CL-ARG-SG400-SV-CARR</a>	Th3 Georgien	Casement Alu/Clad	1.31	0.41	35	1   2   3	A   B   C   D	<a href="#">MPE-M-30</a>
<a href="#">BR-CL-ARG-CL-ARG-SG400-SV-SDL&gt;1"</a>	Th3 SDL 40mm	Casement Alu/Clad	1.31	0.37	32	1   2	A   B   C	<a href="#">MPE-M-30</a>
<a href="#">BFR-CL-ARG-CL-ARG-SG400-SV-CARR</a>	Th3 Georgien	Battant fixe recouvert	1.31	0.47	38	1   2   3	A   B   C   D	<a href="#">MPE-M-30</a>
<a href="#">BFR-CL-ARG-SG400-SV-SDL&gt;1"</a>	Th2 SDL 40mm	Fixed Casement Alu/Clad	1.7	0.46	29	1   2	A   B   C	<a href="#">MPE-M-30</a>
<a href="#">BFR-CL-ARG-SG400-SV-SDL&lt;1"</a>	Th2 SDL 22mm	Fixed Casement Alu/Clad	1.7	0.51	32	1   2	A   B   C	<a href="#">MPE-M-30</a>
<a href="#">BFR-CL-ARG-SG400-SV-CARR</a>	Th2 Georgien	Fixed Casement Alu/Clad	1.7	0.51	32	1   2	A   B   C	<a href="#">MPE-M-30</a>
<a href="#">BFR-CL-ARG-SG400-SV</a>	Th2 No SDL	Fixed Casement Alu/Clad	1.7	0.57	35	1   2   3	A   B   C   D	<a href="#">MPE-M-30</a>
<a href="#">BR-CL-ARG-SG400-SV-SDL&gt;1"</a>	Th2 SDL 40mm	Casement Alu/Clad	1.7	0.4	25	1	A   B	<a href="#">MPE-M-30</a>
<a href="#">BR-CL-ARG-SG400-SV-SDL&lt;1"</a>	Th2 SDL 22mm	Casement Alu/Clad	1.7	0.45	28	1	A   B	<a href="#">MPE-M-30</a>



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="#">BR-CL-ARG-SG400-SV-CARR</a>	Th2 Georgien	Casement Alu/Clad	1.7	0.45	28	1	A   B	<a href="#">MPE-M-30</a>
<a href="#">BR-CL-ARG-SG400-SV</a>	Th2 Sans SDL	Casement Alu/Clad	1.7	0.49	31	1   2	A   B   C	<a href="#">MPE-M-30</a>

**Th2 [3]:** Double [triple] glazed insulated glass unit (two [three] glass panes) - **Georgian:** integrated grilles in double [triple] glazed insulated glass unit.

**SDL :** Simulated Divided Light is composed of small bars glued directly on both sides of the glass surface to simulate the appearance of true divided lites.

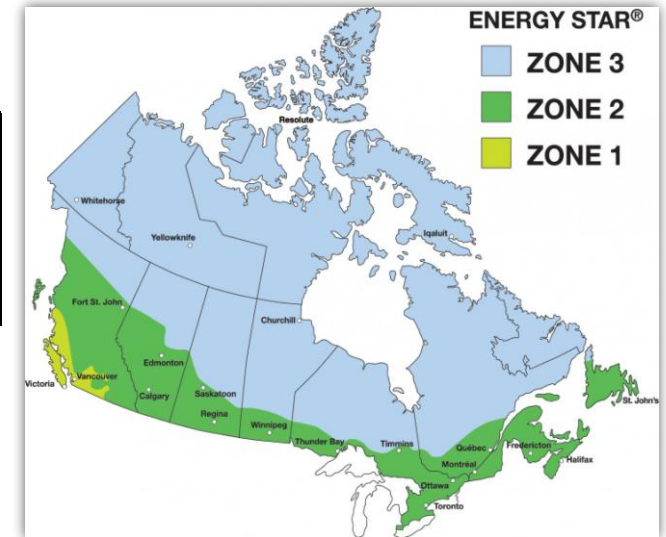
**U-factor:** (W/m<sup>2</sup>-K) The lower the U-factor, the better the ability to resist to heat transfer.

**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 101/1.S.2/A440-08								
	Performance grade (PG)	Airtightness	Water tightness	Wind load resistance	Screen resistance	Resistance to forced entry	Usability	Structural test
Aluminium Clad Wood Casement	CW-CP90-C	A3	B7	C5	S1	F20 - Successful	Successful	PES 90 (4 320 Pa)

**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.