

PROVINCE OF BRITISH COLUMBIA

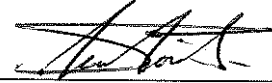
ORDER OF THE LIEUTENANT GOVERNOR IN COUNCIL

Order in Council No.

480

, Approved and Ordered

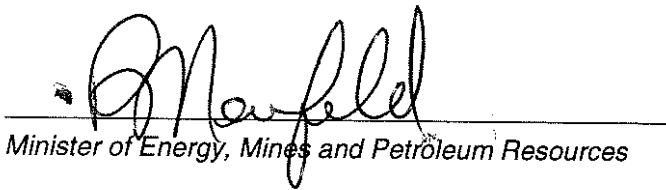
JUN 26 2008



Lieutenant Governor

Executive Council Chambers, Victoria

On the recommendation of the undersigned, the Lieutenant Governor, by and with the advice and consent of the Executive Council, orders that the Energy Efficiency Standards Regulation, B.C. Reg. 389/93, is amended as set out in the Appendix to this Order.



Minister of Energy, Mines and Petroleum Resources



Presiding Member of the Executive Council

(This part is for administrative purposes only and is not part of the Order.)

Authority under which Order is made:

Act and section:- Energy Efficiency Act, R.S.B.C. 1996, c. 114, section 6

Other (specify):- OIC 1591/93

May 29, 2008

R/502/2008/14

APPENDIX

1 Section 4 of the Energy Efficiency Standards Regulation, B.C. Reg. 389/93, is amended by adding the following subsection:

- (1.1) The following are designated for the purpose of testing manufactured fenestration products described in item 37 of Schedule 1:
- (a) all agencies accredited by the National Fenestration Rating Council as independent certification and inspection agencies in relation to those products;
 - (b) professional engineers;
 - (c) architects authorized to practice in British Columbia.

2 Section 5 is amended by adding the following subsection:

(a) in subsection (1) (a) by striking out “certification organization” and substituting “certification organization or other designated tester”, and

(b) by adding the following subsection:

- (3) For the purposes of section 2 (1) (b) of the Act, every manufactured fenestration product described in item 37 of Schedule 1 of this regulation, other than those specifically excluded in Column 1 of item 37 of that schedule, must have affixed to the indoor side of the glazing a temporary label indicating the following in type at least 5 cm in height:
- (a) the verified heat transfer rate (U-value/U-factor) of the window assembly;
 - (b) the words “Lower numbers represent more energy efficient windows.”

3 Section 7 is amended by adding the following subsections:

- (14) For item 15 of Schedule 1, for an application of operation set out in Column 1 of Schedule 3 at the ballast input voltage set out opposite in Column 2 of Schedule 3 and the total nominal lamp wattage set out opposite in Column 3 of Schedule 3, the ballast must meet or exceed
- (a) the minimum ballast efficacy factor set out opposite in Column 4 of Schedule 3, and
 - (b) the requirements of Column 3 of Schedule 1 set out opposite item 15 starting on the date set out opposite in Column 4 of Schedule 1.
- (15) For item 37 of Schedule 1, for manufactured fenestration products to which the requirements of Columns 2 and 3 apply but that
- (a) are designed for a specific building for structural support purposes or heritage preservation purposes, and
 - (b) fall outside the scope of existing certification programs,
- the actual size of the product may be used for the simulations and the average overall U-value of all fenestration in the building may be used for evaluation.

- (16) For item 41 of Schedule 1, the energy efficiency standard is an applicable standard set out in Column 3 for the energy device set out opposite in Column 1, starting on the date set out opposite in Column 4.

4 Item 8 of Schedule 1 is amended

(a) *in Column 2 by striking out “CGA P.2-91 Testing Methods for Measuring Annual Fuel Utilization Efficiencies” and substituting “CSA P.2-07 Testing Method for Measuring Annual Fuel Utilization Efficiency”, and*

(b) *by adding the following:*

Column 1	Column 2	Column 3	Column 4
Gas-fired forced air furnaces for replacement furnaces in pre-existing residential dwellings for use with propane and natural gas having input rating less than 66 kilowatts (225 000 BTU/h).	CSA P.2-07 Testing Method for Measuring Annual Fuel Utilization Efficiencies of Residential Furnaces and Boilers	AFUE = 90%	Dec 31, 2009

5 Schedule 1 is amended by repealing items 15 and 37 and substituting the following:

Column 1	Column 2	Column 3	Column 4
15 Fluorescent lamp ballasts for use in fluorescent luminaires installed in industrial, commercial or residential locations.	CAN/CSA-C654-M91, Fluorescent Lamp Ballast Efficiency Measurements	All ballasts must have a power factor of at least 0.9 except that ballasts designed for 120 volt input and to operate F32T8 rapid-start fluorescent lamps that have a colour rendering index greater than 75 must have a power factor of at least 0.5.	Jan 1, 2009
37 Manufactured fenestration products, including sliding glass doors, skylights and windows, that separate heated space from non-heated space, except (a) windows in residential buildings of 5 storeys or more, (b) windows in non-residential buildings with more than 600m ² floor space, and (c) decorative windows that have stained glass panels, iron inserts or blinds, contained in a sealed insulating glass unit.	Subject to section 7 (15), CSA A440.2-04 Energy Performance of Windows and Other Fenestration Systems or NFRC 100-2004 Procedure for Determining Fenestration Product U-Factors	Except for skylights: maximum U-value = 2.0 W/(m ² • K) (0.35 BTU/h • ft ² • F) For skylights: maximum U-value = 3.10 W/(m ² • K) (0.54 BTU/h • ft ² • F).	Jan 1, 2009 for manufactured fenestration products other than solid wood framed windows, sliding glass doors or skylights. Jan 1, 2011 for solid wood framed windows, sliding glass doors and skylights.

<p>41 Manufactured doors, including door panels, sidelites and transoms, that separate heated space from non-heated space, excluding solid wood door panels.</p>	<p>CSA A453-95 (R2000) Energy Performance Evaluation of Swinging Doors or NFRC 100-2004 Procedure for Determining Fenestration Product U-Factors</p>	<p>Energy efficiency standard: The glass lites must be</p> <p>(a) of IGMA (Insulating Glass Manufacturers Alliance) certified insulating glass units, and</p> <p>(b) be multiple glazed with at least one low-E coating between glazing, a 90% argon gas fill level with a compatible edge sealant system and have warm edge spacers of a composition other than non-thermally broken aluminum.</p> <p>The door panels must be insulated with products rated to a thermal resistance of RSI 0.875 m²K/W (R-5) or higher.</p> <p>As an alternative to the energy efficiency standard for the components above: Maximum U-value = 2.0 W/(m² • K) (0.35 BTU/h • ft² • F.</p>	<p>Jan 1, 2009</p>
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6 *The following Schedule 3 is added:*

<p>Column 1 Application of Operation</p>	<p>Column 2 Ballast Input Voltage</p>	<p>Column 3 Total Nominal Lamp Wattage (W)</p>	<p>Column 4 Minimum Ballast Efficacy Factor (BEF)</p>
<p>One F40T12 lamp Also for use on 40W/48T10/RS lamps</p>	<p>120V</p>	<p>40</p>	<p>2.29</p>
	<p>277 V</p>	<p>40</p>	<p>2.29</p>
	<p>347 V</p>	<p>40</p>	<p>2.22</p>
<p>One F34T12 lamp</p>	<p>120 V</p>	<p>34</p>	<p>2.61</p>
	<p>277 V</p>	<p>34</p>	<p>2.61</p>
	<p>347 V</p>	<p>34</p>	<p>2.53</p>
<p>Two F40T12 lamps Also for use on 40W/48T10/RS lamps</p>	<p>120 V</p>	<p>80</p>	<p>1.17</p>
	<p>277 V</p>	<p>80</p>	<p>1.17</p>
	<p>347 V</p>	<p>80</p>	<p>1.12</p>

Two F34T12 lamps	120 V	68	1.35
	277 V	68	1.35
	347 V	68	1.29
Two F96T12(IS) lamps Also for use on 60W/96T12/IS lamps	120 V	150	0.63
	277 V	150	0.63
	347 V	150	0.62
Two F96T12(ES) lamps	120 V	120	0.77
	277 V	120	0.77
	347 V	120	0.76
Two 110W F96T12HO lamps	120 V	220	0.390
	277 V	220	0.390
	347 V	220	0.380
Two F96T12HO(ES) lamps	120 V	190	0.42
	277 V	190	0.42
	347 V	190	0.41
Two F32T8 lamps	120 V	64	1.250
	277 V	64	1.230
	347 V	64	1.200