

ENERGY EFFICIENCY STANDARDS REGULATION – FAQ's

Glazing products, doors and skylights fall under the Energy Efficiency Act. The Act includes the Energy Efficiency Standards Regulation (EESR). An information bulletin describing the regulations can be found at the following link.

<http://www.empr.gov.bc.ca/EEC/Strategy/BCECE/Documents/Energy%2520Efficiency%2520Act%2520Fenestration%2520Circular%2520April%252003.pdf>

The following questions are answered to assist glazing contractors in understanding the EESR determination of U-Value and certification.

1. Is this project $\leq 600 \text{ M}^2$ or 4 stories (or less) residential?

If so the EESR currently applies on metal products at $U=2.57$. If installed after January 1, 2011 $U=2.0$.

2. Is this project $>600 \text{ M}^2$ or ≥ 5 stories?

(a) If it is completed by December 31, 2010 the EESR does not apply.

(b) If any part of construction of the above project is after January 1, 2011, then EESR will apply.

(c) If the project is complying with ASHRAE90.1 2004/07 as per BCBC or Vancouver City Building By-Laws, then the project is exempt of the EESR, since over-all building performance is considered by ASHRAE 90.1.

(d) If the project is not ASHRAE90.1 compliant, then the EESR applies to the project. This could be the case, for example, for renovation of glazing systems in existing buildings.

3. Who should I consult regarding the energy efficiency of the products that I assemble and install?

First speak to your suppliers, since many of them have the ability to calculate the thermal performance of the system.

4. Who can calculate the thermal performance of glazing systems and doors?

There are many engineering companies, labs and specialty simulation companies with the expertise to compute the U-value, SHGC and visible transmittance. Some of the above are accredited by NFRC. NFRC have developed a methodology known as the Component Modelling Approach (CMA). This methodology is intended to simplify the computations.

5. Which companies can certify the calculations?

Four NFRC inspection agencies are available to serve you and provide the labelling and/or certificates that verify the performance of the fenestration products. More details of this are available at www.NFRC.org.

6. Who pays for the calculations and certifications?

For each project, you must determine if that is the glazing contractor's responsibility or not. Is it spelled out in the specifications?

Questions regarding the EESR for fenestration may be forwarded to either: David.Bruce@gov.bc.ca or Erik.Kaye@gov.bc.ca.