

## Town of Gravenhurst Memorandum

The intent of this information is to provide communication and generate discussions as information comes to the Building department.

Thank you all for taking the time to attend the Energy Efficiency changes information session last month.

I have come across some updated information and thought I would pass it along.

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### **R Value equivalents for Windows and skylights**

How does U- value compare to R values?

U value is in inverse of RSI value or  $U = 1/RSI$

How does that correlate to R value?

To meet a **U value of 1.8** the window would equivalently be R3.

This is what's required in Package J

**R3** = RSI 0.528

$U = 1/.0528$

$U = 1.8$

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To meet a **U value of 1.6** the window would equivalently be R3.5

This is what's required in package D

**R3.5** = RSI 0.616

$U = 1/.616$

$U = 1.6$

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Skylights required a **U value of 2.8** would equivalently be R2

**R2** = RSI .35

$U = 1/.35$

$U = 2.8$

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Low E and argon window currently carry R4, to the best of my knowledge

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## **Required Insulation in ceiling space**

### **2.1.1.7. Thermal Resistance Values for Roof Access Hatches and Eaves**

**(1)** The thermal resistance values for insulation required by Articles 2.1.1.2. and 2.1.1.3. for exposed ceilings with attic spaces are permitted to be reduced

(a) directly above access hatches, and

(b) near eaves to the extent made necessary by the roof slope and required ventilation clearances, except that the thermal insulation value at the location directly above access hatches and inner surfaces of exterior walls shall be not less than RSI 3.52.

#### Explanation

**This means that the insulation value above the attic hatch and in the sloped area toward the eave cannot be less than R20.**

#### Consideration

How will this affect dwelling design, height, and price with respect to raised heel truss?  
How does this affect a stick framed roof, while maintaining the required air space?

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### **Ontario Building Code**

Proposed New Building Code **January 1, 2013.**

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#### **Air Barrier Things to remember.**

It is a required inspection.

Attached is an excerpt from Div B 9.25.3 for Air Barrier.

Designers must submit air barrier details as part of the construction plans for permit.

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#### **Lastly**

The Energy Efficiency Design Summary is required to be submitted with the construction plans for permit.

Jim Crook from First phase home designs has put together a memo from a designers perspective to generate discussion. I have attached the memo for your consideration.

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From  
Bobbi Lovering  
Town of Gravenhurst Building department

