

**NC Department of Insurance  
Office of the State Fire Marshal - Engineering Division  
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**Commercial Building Above-Grade Wall Insulation Requirements**

**Code:** 2012 Energy Conservation Code  
**Section:** 502.2.3

**Date:** July 3, 2012

**Question:**

For commercial buildings, when applying the above grade wall provisions of Table 502.2(1) through (4), is it required to satisfy both the cavity R-value requirement and the continuous R-value requirement when both are present in the table?

**Answer:**

Yes, Section 502.2.3 requires that when both cavity and continuous insulation values are present in the same cell of Table 502.2(1), both requirements shall be met.

**Example:**

In Table 502.2(1) Metal Framed for Group R in Zone 3 requires R-13 + R-7ci. That means that R-13 in the wall cavity plus R-7 continuous insulation on the wall surface is required.