

**NC Department of Insurance  
Office of the State Fire Marshal - Engineering Division  
1202 Mail Service Center, Raleigh, NC 27699-1202  
919-661-5880**

**Thermal Envelope Requirement for School Stadium Concession Stands**

**Code:** 2012 NC Energy Conservation Code  
**Section:** 101.5.2

**Date:** July 24, 2012

**Question:**

Is a school stadium concession stand with a window type opening that remains open during operating hours to provide service for associated customers required to comply with the NC Energy Conservation Code (NCECC)?

**Answer:**

Yes, but it is not required to meet the thermal envelope requirements if all of the following conditions are met:

- 1) The concession space is not “conditioned space” as exempted by Item #2 of Section 101.5.2 and defined in Section 202 “for energy purposes”.
- 2) The concession space is a freestanding building or has a thermal envelope separation between the concession area and “conditioned spaces”.
- 3) The space is not considered “occupiable space” by Section 202 of the NC Mechanical Code meaning it is only occupied occasionally and for short periods of time. This requirement must be met so that the temperature limits for “conditioned space” as defined in Section 202 of the NCECC are not required.

The remainder of the NCECC requirements is still applicable to the area.

**Reference:**

NCECC, Section 202 - General Definitions

**CONDITIONED SPACE.** For energy purposes, space within a building that is provided with heating or cooling equipment or systems capable of maintaining, through design or heat loss/gain, 50<sup>o</sup>F (10<sup>o</sup>C) during the heating season and 85<sup>o</sup>F (29<sup>o</sup>C) during the cooling season, or communicates directly with a conditioned space. For mechanical purposes, an area, room or space being heated or cooled by any equipment of appliance.

**Keywords:**

Insulation, HVAC, high school, middle school, elementary school, public school, private school