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North Carolina Building Code Council Update

The N.C. Building Code Council will meet **December 7-8, 2009**, at the **NCDOI offices at 322 Chapanoke Rd., Raleigh, NC**. The council will hold a work session at 10 a.m. on Monday, Dec. 7, (note the time change from the traditional 9 a.m.) followed by a public hearing at 1 p.m. The council meeting will be on Tuesday, December 8, at 9 a.m. The meeting agenda can be found at: http://www.ncdoi.com/OSFM/Engineering/BCC/engineering_bcc_agenda.asp about two weeks prior to the council meeting.

North Carolina 2009 Residential Code changes

(continued from August issue)

Highlights on changes between the 2006 and 2009 North Carolina Residential Code

CHAPTER 10 ROOF ASSEMBLIES (continued)

R1002 MASONRY HEATERS

R1002.1 Definition. A masonry heater is a heating appliance constructed of concrete or solid masonry, hereinafter referred to as masonry, which is designed to absorb and store heat from a solid-fuel fire built in the firebox by routing the exhaust gases through internal heat exchange channels in which the flow path downstream of the firebox may include flow in a horizontal or downward direction before entering the chimney and which delivers heat by radiation from the masonry surface of the heater.

IRC change—Section 1002 is a new Section that has been added, which covers the definition of masonry heaters as well as structural and clearance requirements in the subsections.

R1003.10.1 Masonry veneer chimneys. Where masonry is used to veneer a frame chimney, through-flashing and weep holes shall be installed as required by Section R703.

IRC change that adds requirement for flashing and weep holes for chimneys with veneer cladding.

R1003 MASONRY CHIMNEYS

Table R1003.14(2) NET CROSS-SECTIONAL AREA OF SQUARE AND RECTANGULAR FLUE SIZES

IRC change – New table has been added that adds more flue sizes to the table.

R1003.19 Chimney fireblocking. All spaces between chimneys and floors and ceilings through which chimneys pass shall be fireblocked with noncombustible material securely fastened in place. The fireblocking of spaces between chimneys and wood joists, beams or headers shall be *self-supporting or be placed on strips of metal or metal lath laid across the spaces between combustible material and the chimney.*

IRC change—Added specific language and how fireblocking must be supported (must use non-combustible material and be self supporting or be placed on metal strips for support). Wood fireblocking material or other combustible items cannot be used up against chimneys regardless of thickness.

R1006 EXTERIOR AIR SUPPLY

R1006.1 Exterior air. Factory-built or masonry fireplaces covered in this chapter shall be equipped with an exterior air

supply to assure proper fuel combustion unless the room is mechanically ventilated and controlled so that the indoor pressure is neutral or positive.

IRC change—This is a new section and requires exterior make up air for factory built or masonry fireplaces unless HVAC is designed to introduce fresh air and control indoor air pressures. This section will require screening over air intake (typically installed in firebox) and minimum 6 sq. in. to no more than 55 sq. in. of opening. Clearance of 1" from combustibles is also required. 🏠

Table R1003.14(2)

FLUE SIZE, OUTSIDE NOMINAL DIMENSIONS (inches)	CROSS-SECTIONAL AREA (square inches)
4.5 x 8.5	23
4.5 x 13	34
8 x 8	42
8.5 x 8.5	49
8 x 12	67
8.5 x 13	76
12 x 12	102
8.5 x 18	101
13 x 13	127
12 x 16	131
13 x 18	173
16 x 16	181
16 x 20	222
18 x 18	233
20 x 20	298
20 x 24	335
24 x 24	431

For SI: 1 inch = 25.4 mm, 1 square inch = 645.16 mm²