

**NC Department of Insurance
Office of the State Fire Marshal - Engineering Division
1202 Mail Service Center, Raleigh, NC 27699-1202
919-647-0000**

Smoke Detectors in Residential Aircraft Hangars

Code: 2018 Residential Code

Date: April 10, 2019

Section: R314.3

Question:

Are smoke detectors required in residential aircraft hangars when no electrical service is installed?

Answer:

Residential aircraft hangars are not addressed in the Residential Code. However, the General Statutes require that all buildings and structures must meet the State Building Code. In this case, residential aircraft hangars must meet the requirements of Section 412.5 of the 2018 Building Code which specifically addresses residential aircraft hangars. Section 412.5.3 requires smoke alarms in residential aircraft hangars. Section 907.2.21 requires that the alarm be interconnected to the residential smoke alarm or other sounding device which will be audible in sleeping areas of the dwelling.

Question:

Are battery powered smoke detectors allowed?

Answer:

Generally, no. Section R314.6 of the 2018 Residential Code only allows battery powered smoke detectors when no commercial power source is connected to the building. If the residential aircraft hangar is a separate building not connected to the house, a battery powered smoke detector is allowed.