

visible and listed tactile notification appliances if these appliances are ordered by the purchaser or retailer before the home enters the first stage of production. These appliances are required to operate from the primary power source, but are not required to operate from a secondary power source.

(2) A visible notification appliance in a room designed for sleeping must have a minimum rating of 177 candela, except that when the visible notification appliance is wall-mounted or suspended more than 24 inches below the ceiling, a minimum rating of 110 candela is permitted.

(3) A visible notification appliance in an area other than a room designed for sleeping must have a minimum rating of 15 candela.

(g) *Testing and maintenance.* (1) Each required smoke alarm installed at the factory must be operationally tested, after conducting the dielectric test specified in § 3280.810(a), in accordance with the alarm manufacturer's instructions. A smoke alarm that does not function as designed during the test and is not fixed so that it functions properly in the next retest must be replaced. Any replacement smoke alarm must be successfully tested in accordance with this paragraph.

(2) Home manufacturers must provide specific written instructions for installers on how to inspect and test the operation of smoke alarms during installation of the home. These instructions must indicate that any smoke alarm that does not meet the inspection or testing requirements needs to be replaced and retested.

(3) Home manufacturers must provide the homeowner with the alarm manufacturer's information describing the operation, method and frequency of testing, and proper maintenance of the smoke alarm. This information must be provided in same manner and location as the consumer manual required by § 3282.207 of this chapter, but does not have to be incorporated into the consumer manual. No dealer, distributor, construction contractor, or other person shall interfere with the distribution of this information

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#### § 3280.210 Fire testing.

All fire testing conducted in accordance with this subpart shall be performed by nationally recognized testing laboratories which have expertise in fire technology. In case of dispute, the Secretary shall determine if a particular agency is qualified to perform such fire tests.

[49 FR 32011, Aug. 9, 1984. Redesignated at 78 FR 73982, Dec. 9, 2013]

#### § 3280.211 Carbon monoxide alarm requirements.

(a) *Labeling.* Carbon monoxide alarms shall be listed and must bear a label to evidence conformance with ANSI/UL 2034 (incorporated by reference, see § 3280.4). Combination carbon monoxide and smoke alarms shall be listed and must bear a label to evidence conformance with ANSI/UL 2034 and UL 217 (incorporated by reference, see § 3280.4).

(b) *Required carbon monoxide alarm locations.* Carbon monoxide alarms must be installed in each home containing either a fuel burning appliance or designed by the home manufacturer to include an attached garage. Carbon monoxide alarms must be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms and in accordance with the alarm manufacturer's installation instructions. Where a fuel-burning appliance is located within a bedroom or its attached bathroom, a carbon monoxide alarm must be installed within the bedroom and in accordance with the manufacturer's installation instructions. Carbon monoxide alarms must be installed in conformance with NFPA 720 (incorporated by reference, see § 3280.4).

(c) *Interconnectivity.* Where more than one carbon monoxide alarm is required to be installed, the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all the alarms installed.

(d) *Connection to power source.* Each carbon monoxide alarm must be powered from the electrical system of the

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home as the primary power source and a battery as a secondary power source.

(e) *Combination alarms.* Combination carbon monoxide and smoke alarms shall be permitted to be used in lieu of carbon monoxide alarms. When combination carbon monoxide and smoke alarms are used, they shall be installed to also comply with § 3280.209.

(f) *Basement applications.* For each home designed to be placed over a basement, the manufacturer must provide a carbon monoxide alarm for the basement and must install the electrical junction box for the installation of this carbon monoxide alarm for its interconnection with other alarms required by this section.

(g) *Testing.* Each required carbon monoxide alarm installed at the factory must be operationally tested, after conducting the dielectric test specified in § 3280.810(a), in accordance with the alarm manufacturer's instructions. A carbon monoxide alarm that does not function as designed during the test and is not satisfactorily repaired so that it functions properly in the next retest must be replaced. Any replacement carbon monoxide alarm must be successfully tested in accordance with this section.

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### § 3280.212 **Factory constructed or site-built attached garages.**

(a) When a manufactured home is designed for factory construction with an attached garage or is designed for construction of an attached site-built garage that is not self-supported, the manufacturer must design the manufactured home to accommodate all appropriate live and dead loads from the attached garage structure that will be transferred through the manufactured home structure to the home's support and anchoring systems.

(b) The design must specify the following home and garage characteristics including maximum width, maximum sidewall height, maximum roof slope, live and dead loads, and other de-

sign limitations or restrictions using loads provided by this Code.

(c) When a manufactured home is factory constructed with an attached garage or is constructed for the attachment of a site-built garage, provisions must be made to provide fire separation between the garage and the manufactured home.

(1) The garage must be separated from the manufactured home and its attic by not less than ½-inch gypsum board or equivalent applied to the garage side of the manufactured home, separation shall be from the underside of the floor to the underside of the roof deck and may be provided on-site as part of an On Site Completion of Construction approval. Garages beneath habitable rooms must be separated from all habitable rooms by ⅝-inch, Type X gypsum board or equivalent. Where the separation is a floor ceiling assembly, the structure supporting the separation must also be protected by not less than ½-inch gypsum board or equivalent. The design approval and the manufacturer's installation instructions must also include provision for equivalent vertical or horizontal separation between the garage and the manufactured home as appropriate.

(2) [Reserved]

(d) Openings from a garage directly into a room designated for sleeping purposes are not permitted.

(e) Other openings between the garage and the manufactured home must:

(1) Be equipped with solid wood doors not less than 1⅜ inch in thickness, or solid or honeycomb steel doors not less than 1⅜ inch in thickness, or 20-minute fire-rated doors, and all doors shall be of the self-closing type; and

(2) Be in addition to the two exterior doors required by § 3280.105.

(f) Ducts penetrating the walls or ceilings separating the manufactured home from the garage must be constructed of a minimum No. 26 gauge steel or other approved material and must have no openings into the garage.

(g) Installation instructions shall be provided by the home manufacturer that, in addition to addressing the fire separation as required in this section, shall identify acceptable attachment locations, indicate design limitations