

(Amd) **R324.2 Solar thermal systems.** Solar thermal systems *shall* be designed and installed in accordance with Chapter 23.

(Amd) **R324.3 Photovoltaic systems.** Photovoltaic systems *shall* be designed and installed in accordance with Sections R324.3.1 through R324.7.2.5 and NFPA 70. Inverters *shall* be *listed* and *labeled* in accordance with UL 1741. Systems connected to the utility grid *shall* use inverters *listed* for utility interaction.

(Amd) **R324.6.1 Fire separation distances.** For the purposes of *fire separation distances*, ground-mounted photovoltaic systems *shall* be considered *accessory structures* and subject to the applicable fire separation requirements of this code.

(Add) **R324.7 Access and pathways.** Roof access, pathways and spacing requirements *shall* be provided in accordance with Sections R324.7.1 through R324.7.2.4.

Exception: Detached garages and *accessory structures* to one and *two-family dwellings* and *townhouses*, such as parking shade structures, carports, solar trellises and similar structures.

(Add) **R324.7.1 Roof access points.** Roof access points *shall* be located in areas that do not require the placement of ground ladders over openings such as windows or doors, and located at strong points of *building* construction in locations where the access point does not conflict with overhead obstructions such as tree limbs, wires or signs.

(Add) **R324.7.2 Solar photovoltaic systems.** Solar photovoltaic systems *shall* comply with Sections R324.7.2.1 through R324.7.2.4.

(Add) **R324.7.2.1 Size of solar photovoltaic array.** Each photovoltaic array *shall* be limited to 150 feet by 150 feet (45 720 by 45 720 mm). Multiple arrays *shall* be separated by a clear access pathway not less than 3 feet (914 mm) in width.

(Add) **R324.7.2.2 Hip roof layouts.** Panels and modules installed on *dwellings* with hip roof layouts *shall* be located in a manner that provides a clear access pathway not less than 3 feet (914 mm) in width from the eave to the ridge on each roof slope where panels and modules are located. The access pathway *shall* be located at a structurally strong location on the *building* capable of supporting the *live load* of fire fighters accessing the roof.

Exceptions:

1. This requirement *shall* not apply to roofs with slopes of two units vertical in 12 units horizontal (16.6 percent) and less.
2. Where panels are installed on only one roof slope and there is clear access on the opposing slope.

(Add) **R324.7.2.3 Single ridge roofs.** Panels and modules installed on *dwellings* with a single ridge *shall* be located in a manner that provides two, 3-foot-wide (914 mm) access pathways from the eave to the ridge on each roof slope where panels or modules are located.

Exceptions:

1. This requirement *shall* not apply to roofs with slopes of two units vertical in 12 units horizontal (16.6 percent) and less.
2. Where panels are installed on only one roof slope and there is clear access on the opposing slope.

(Add) **R324.7.2.4 Roofs with hips and valleys.** Panels and modules installed on *dwelling*s with roof hips or valleys *shall* not be located less than 18 inches (457 mm) from a hip or valley where panels or modules are to be placed on both sides of a hip or valley. Where panels are to be located on one side only of a hip or valley that is of equal length, the 18-inch (457 mm) clearance does not apply.

Exception: These requirements *shall* not apply to roofs with slopes of two units vertical in 12 units horizontal (16.6 percent) and less.

(Amd) **R326.1 General.** The provisions of this section *shall* control the design and construction of *swimming pools*, spas and hot tubs installed in or on the *lot* of a *one- or two-family dwelling*.

(Add) **R326.2 Pools in flood hazard areas.** Pools that are located in *flood hazard areas* established by Table R301.2(1), including above-ground pools, on-ground pools and in-ground pools that involve placement of fill, *shall* comply with Section R326.2.1 or R326.2.2.

Exception: Pools located in riverine *flood hazard areas* which are outside of designated *floodways*.

(Add) **R326.2.1 Pools located in designated floodways.** Where pools are located in designated *floodways*, documentation *shall* be submitted to the *building official* which demonstrates that the construction of the pool will not increase the *design flood elevation* at any point within the *jurisdiction*.

(Add) **R326.2.2 Pools located where floodways have not been designated.** Where pools are located where *design flood elevations* are specified but *floodways* have not been designated, the applicant *shall* provide a *floodway analysis* that demonstrates that the proposed pool will not increase the *design flood elevation* more than 1 foot (305 mm) at any point within the *jurisdiction*.

(Add) **R326.3 Definitions.** For the purposes of these requirements, the terms used *shall* be defined as follows and as set forth in Chapter 2.

ABOVE-GROUND/ON-GROUND POOL. See "Swimming pool."

BARRIER. A fence, wall, *building wall* or combination thereof which completely surrounds the swimming pool and obstructs access to the swimming pool.

HOT TUB. See "Swimming pool."

IN-GROUND POOL. See "Swimming pool."

RESIDENTIAL. That which is situated on the premises of a detached *one- or two-family dwelling*, or a one-family *townhouse* not more than three stories in height where the pool is intended to be used by the *owners* and invited guests.

SPA. A product intended for the immersion of persons in temperature-controlled water circulated in a closed system and not intended to be drained and filled with each use. A spa usually includes a filter; an electric, solar or gas heater; a pump or pumps; and a control and can also include other equipment, such as lights, blowers, and sanitizing equipment.

SPA, EXERCISE (Also known as a swim spa). Variants of a spa in which the design and construction includes specific features and equipment to produce a water flow intended to allow recreational physical activity including, but not limited to, swimming in place. *Exercise spas* can include peripheral jetted seats intended for water therapy, heater, circulation and filtration system,