

Code Resources

5th Edition (2014) Florida Building Code

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5th Edition (2014) Florida Building Code, Building

Chapter 30 Elevators and Conveying Systems Section 3013

Section 3013 Clearance requirements between elevator doors for elevators inside a private residence.

5th Edition (2014) Florida Building Code, Residential

SECTION R321 ELEVATORS AND PLATFORM LIFTS

R321.1 Elevators. Where provided, passenger elevators, limited-use/limited-application elevators or private residence elevators shall comply with ASME A17.1/CSA B44.

R321.2 Platform lifts. Where provided, platform lifts shall comply with ASME A18.1.

R321.3 Accessibility. Reserved.

R321.4 Clearance requirements between elevator doors for elevators inside a private residence.

3013.1 / R321.4.1 For elevators installed in a private residence:

- (a) The distance between the hoistway face of the hoistway doors and the hoistway edge of the landing sill may not exceed 3/4 inch for swinging doors and 2 1/4 inches for sliding doors.
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- (b) 1. Horizontal sliding car doors and gates shall be designed and installed to withstand a force of 75 pounds applied horizontally on an area 4 inches by 4 inches at right angles to and at any location on the car door without permanent deformation. The deflection may not exceed 3/4 inch and may not displace the door from its guides or tracks. The force must be applied while the door is in the fully closed position.
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- 2. Folding car doors shall be designed and installed to withstand a force of 75 pounds applied horizontally using a 4- inch-diameter sphere at any location within the folds on the car door without permanent deformation. The deflection may not exceed 3/4 inch and may not displace the door from its guides or tracks. The force must be applied while the door is in the fully closed position.

(c) The distance between the hoistway face of the landing door and the hoistway face of the car door or gate shall conform to one of the following:

1. If a power-operated horizontally sliding hoistway and car doors are used, the measurement between the leading edge of the doors or sight guard, if provided, may not exceed 4 inches. If it is possible for a user to detach or disconnect either door from the operator and such detachment or disconnection allows the user to operate the door manually, the requirement in subparagraph 5. applies.

2. If swinging hoistway doors and folding car doors are used and both doors are in the fully closed position, the space between the hoistway door and the folding door must reject a 4-inch-diameter sphere at all points.

3. If swinging hoistway doors and car gates are used, the space between the hoistway door and the car gate must reject a 4-inch-diameter sphere at all points.

4. If the car doors are powered and arranged so that they cannot be closed until after the hoistway door is closed, and the car doors automatically open when the car is at a landing and the hoistway door is opened, the measurement between the hoistway face of the hoistway door and the hoistway face of the car door at its leading edge may not exceed 4 inches. If it is possible for a user to detach or disconnect either door from the operator and such detachment or disconnection allows the user to operate the door manually, the requirement in subparagraph 5. applies.

5. If swinging or horizontally sliding hoistway doors and manual horizontally sliding car doors are used and both doors are in the fully closed position, the space between the swinging or horizontally sliding hoistway door and the manual horizontally sliding car doors must reject a 4-inch-diameter sphere at all points.

3013.2/R321.4.2 The underside of the platform of an elevator car shall be equipped with a device that, if the platform of the elevator car is obstructed anywhere on its underside in its downward travel, interrupts the electric power to the driving machine motor and brake, if provided, and stops the elevator car's downward motion within 2 inches. The stroke of the device may not be less than the stopping distance of the platform of the elevator car. The force required to operate the device may not exceed 15 pounds. Downward motion shall be permitted to resume only after the elevator has been manually reset.

3013.4 This section applies to all new elevators in a private residence.