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2 An act relating to elevators; creating s. 399.031,
3 F.S.; providing a short title; providing clearance
4 requirements for elevators installed in private
5 residences; requiring certain doors and gates to
6 withstand a specified amount of force; requiring
7 certain doors to reject a sphere of a specified size
8 under certain circumstances; requiring all such
9 elevators to be equipped with a certain device;
10 providing requirements for the device; providing
11 applicability; directing the Florida Building
12 Commission to adopt the provisions of the act into the
13 Florida Building Code by a certain date; providing an
14 effective date.
15

16 Be It Enacted by the Legislature of the State of Florida:
17

18 Section 1. Section 399.031, Florida Statutes, is created to
19 read:

20 399.031 Clearance requirements between elevator doors for
21 elevators inside a private residence.-

22 (1) This section may be cited as the "Maxwell Erik 'Max'
23 Grablin Act."

24 (2) For elevators installed in a private residence:

25 (a) The distance between the hoistway face of the hoistway
26 doors and the hoistway edge of the landing sill may not exceed
27 3/4 inch for swinging doors and 2 1/4 inches for sliding doors.

28 (b)1. Horizontal sliding car doors and gates shall be
29 designed and installed to withstand a force of 75 pounds applied

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30 horizontally on an area 4 inches by 4 inches at right angles to
31 and at any location on the car door without permanent
32 deformation. The deflection may not exceed 3/4 inch and may not
33 displace the door from its guides or tracks. The force must be
34 applied while the door is in the fully closed position.

35 2. Folding car doors shall be designed and installed to
36 withstand a force of 75 pounds applied horizontally using a 4-
37 inch-diameter sphere at any location within the folds on the car
38 door without permanent deformation. The deflection may not
39 exceed 3/4 inch and may not displace the door from its guides or
40 tracks. The force must be applied while the door is in the fully
41 closed position.

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

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

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

56 3. If swinging hoistway doors and car gates are used, the
57 space between the hoistway door and the car gate must reject a
58 4-inch-diameter sphere at all points.

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

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

75 (3) The underside of the platform of an elevator car shall
76 be equipped with a device that, if the platform of the elevator
77 car is obstructed anywhere on its underside in its downward
78 travel, interrupts the electric power to the driving machine
79 motor and brake, if provided, and stops the elevator car's
80 downward motion within 2 inches. The stroke of the device may
81 not be less than the stopping distance of the platform of the
82 elevator car. The force required to operate the device may not
83 exceed 15 pounds. Downward motion shall be permitted to resume
84 only after the elevator has been manually reset.

85 (4) This section applies to all new elevators in a private
86 residence.

87 Section 2. By October 1, 2016, the Florida Building

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88 Commission shall adopt s. 399.031, Florida Statutes, into the
89 Florida Building Code pursuant to s. 553.73(8), Florida
90 Statutes.

91 Section 3. This act shall take effect July 1, 2016.