

By the Committee on Regulated Industries; and Senator Galvano

580-02678-16

20161602c1

1 A bill to be entitled
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; providing an effective date.

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13 Be It Enacted by the Legislature of the State of Florida:

14
15 Section 1. Section 399.031, Florida Statutes, is created to
16 read:

17 399.031 Clearance requirements between elevator doors for
18 elevators inside a private residence.-

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

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

22 (a) The distance between the hoistway face of the hoistway
23 doors and the hoistway edge of the landing sill may not exceed
24 3/4 inch for swinging doors and 2 1/4 inches for sliding doors.

25 (b)1. Horizontal sliding car doors and gates shall be
26 designed and installed to withstand a force of 75 pounds applied
27 horizontally on an area 4 inches by 4 inches at right angles to
28 and at any location on the car door without permanent
29 deformation. The deflection may not exceed 3/4 inch and may not
30 displace the door from its guides or tracks. The force must be
31 applied while the door is in the fully closed position.

32 2. Folding car doors shall be designed and installed to

580-02678-16

20161602c1

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

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

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

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

53 3. If swinging hoistway doors and car gates are used, the
54 space between the hoistway door and the car gate must reject a
55 4-inch-diameter sphere at all points.

56 4. If the car doors are powered and arranged so that they
57 cannot be closed until after the hoistway door is closed, and
58 the car doors automatically open when the car is at a landing
59 and the hoistway door is opened, the measurement between the
60 hoistway face of the hoistway door and the hoistway face of the
61 car door at its leading edge may not exceed 4 inches. If it is

580-02678-16

20161602c1

62 possible for a user to detach or disconnect either door from the
63 operator and such detachment or disconnection allows the user to
64 operate the door manually, the requirement in subparagraph 5.
65 applies.

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

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

82 (4) This section applies to all new elevators in a
83 residential dwelling.

84 Section 2. This act shall take effect July 1, 2016.