

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; 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.

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

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 18           Section 1. Section 399.031, Florida Statutes, is created  
 19 to 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 of an inch for swinging doors and 2 1/4 inches for sliding  
28 doors.

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

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

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

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

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

57 3. If swinging hoistway doors and car gates are used, the  
58 space between the hoistway door and the car gate must reject a  
59 4-inch-diameter sphere at all points.

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

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

76 (3) The underside of the platform of an elevator car shall  
77 be equipped with a device that, if the platform of the elevator  
78 car is obstructed anywhere on its underside in its downward

79 travel, interrupts the electric power to the driving machine  
80 motor and brake, if provided, and stops the elevator car's  
81 downward motion within 2 inches. The stroke of the device may  
82 not be less than the stopping distance of the platform of the  
83 elevator car. The force required to operate the device may not  
84 exceed 15 pounds. Downward motion shall be permitted to resume  
85 only after the elevator has been manually reset.

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

88 Section 2. By October 1, 2016, the Florida Building  
89 Commission shall adopt s. 399.031, Florida Statutes, into the  
90 Florida Building Code pursuant to s. 553.73(8), Florida  
91 Statutes.

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