



SENATE BILL 527: Safety Requirements for Elevators.

2023-2024 General Assembly

Committee:	Senate Rules and Operations of the Senate	Date:	April 25, 2023
Introduced by:	Sens. Moffitt, Johnson, Hanig	Prepared by:	Bill Patterson
Analysis of:	Second Edition		Staff Attorney

OVERVIEW: Senate Bill 527 would modify safety requirements applicable to elevators in private residences, cottages, and similar accommodations that are rented for 15 days or more in any calendar year, and would direct the Building Code Council to adopt amendments to the North Carolina Building Code consistent with these requirements.

CURRENT LAW: Section 1 of S.L. 2022-56 (Weston's Law) amended G.S. 143-143.7 to require elevators in private residences, cottages, or similar accommodations that are rented for at least 15 days in a calendar year to meet the following requirements:

- The gap between the hoistway face of the landing door and the hoistway face of the elevator car door cannot exceed four inches.
- Elevator doors and gates must be rigid enough to withstand a force of 75 pounds applied horizontally without permanent deformation and without either causing a deflection in the door greater than three-quarters of an inch or displacing the door or gate from its tracks.

If an elevator does not comply with these requirements, the landlord must prevent its operation until it has been brought into compliance.

Section 5 of S.L. 2022-56 required the Building Code Council to amend Section R321 of the North Carolina Residential Code, which governs elevators in one- and two-family dwellings, to be consistent with standards governing the rigidity of elevator car doors and the maximum gap between the elevator car door and the hoistway door established by the American Society of Mechanical Engineers (ASME) in the 2016 edition of ASME A17.1, as modified by Section 1 of S.L. 2022-56.

BILL ANALYSIS: Section 1 of Senate Bill 527 would require elevators in accommodations rented for 15 days or more in any calendar year to meet the following requirements:

- Horizontal sliding car doors and gates must be designed and installed such that after the car door or gate has been subjected to a force of 75 pounds applied horizontally on a four inch by four inch area at right angles to any location on the car door or gate when fully closed, there is no more than a 4.75 inch gap between the hoistway face of the landing door, the door space guard, or the door baffle, and the hoistway face of the car door or gate, and the door or gate is not permanently deformed or displaced from its guides or tracks.
- Folding car doors must be designed and installed such that after the car door has been subjected to a force of 75 pounds applied horizontally using a four-inch diameter sphere at any location within the folds of the door when fully closed, there is no more than a 4.75 inch gap between the hoistway face of the landing door, the door space guard, or the door baffle, and the hoistway face of the car door, and the door is not permanently deformed or displaced from its guides or tracks.

Jeffrey Hudson
Director



Legislative Analysis
Division
919-733-2578

Senate Bill 527

Page 2

Section 2 would require the Building Code Council and code enforcement officials to follow standards consistent with 2016 ASME A17.1 requirements governing the rigidity of elevator car doors and the maximum gap between the car door and hoistway door in one- and two-family dwellings, except where those requirements are superseded by G.S. 143-143.7, as amended by Section 1 of this act.

Section 2 would also require the Building Code Council to adopt a rule amending Section R321 of the 2018 North Carolina Residential Code to incorporate these standards. The rule adopted by the Council would be subject to the delayed effective date applicable to rules with respect to which 10 or more written objections have been received.

EFFECTIVE DATE: Section 1 of the act becomes effective June 30, 2024. The remainder of the act is effective when it becomes law.