

2021 Virginia Construction Code

CHAPTER 24 GLASS AND GLAZING

SECTION 2409 GLASS IN WALKWAYS, ELEVATOR HOISTWAYS AND ELEVATOR CARS

2409.1 Glass walkways.

Glass installed as a part of a floor/ceiling assembly as a walking surface and constructed with laminated glass shall comply with [ASTM E2751](#) or with the *load* requirements specified in [Chapter 16](#). Such assemblies shall comply with the *fire-resistance rating* and marking requirements of this code where applicable.

2409.2 Glass in elevator hoistway enclosures.

Glass in elevator hoistway enclosures and hoistway doors shall be laminated glass conforming to [ANSI Z97.1](#) or [CPSC 16 CFR Part 1201](#).

2409.2.1 Fire-resistance-rated hoistways.

Glass installed in hoistways and hoistway doors where the hoistway is required to have a *fire-resistance rating* shall comply with [Section 716](#).

2409.2.2 Glass hoistway doors.

The glass in glass hoistway doors shall be not less than 60 percent of the total visible door panel surface area as seen from the landing side.

2409.3 Vision panels in elevator hoistway doors.

Glass in vision panels in elevator hoistway doors shall be permitted to be any transparent glazing material not less than $\frac{1}{4}$ inch (6.4 mm) in thickness conforming to Class A in accordance with [ANSI Z97.1](#) or Category II in accordance with [CPSC 16 CFR Part 1201](#). The area of any single vision panel shall be not less than 24 square inches (15 484 mm²) and the total area of one or more vision panels in any hoistway door shall be not more than 85 square inches (54 839 mm²).

2409.4 Glass in elevator cars.

Glass in elevator cars shall be in accordance with this section.

2409.4.1 Glass types.

Glass in elevator car enclosures, glass elevator car doors and glass used for lining walls and ceilings of elevator cars shall be laminated glass conforming to Class A in accordance with [ANSI Z97.1](#) or Category II in accordance with [CPSC 16 CFR Part 1201](#).

Exception: Tempered glass shall be permitted to be used for lining walls and ceilings of elevator cars provided that:

1. The glass is bonded to a nonpolymeric coating, sheeting or film backing having a physical integrity to hold the fragments when the glass breaks.
2. The glass is not subjected to further treatment such as sandblasting; etching; heat treatment or painting that could alter the original properties of the glass.
3. The glass is tested to the acceptance criteria for laminated glass as specified for Class A in accordance with [ANSI Z97.1](#) or Category II in accordance with [CPSC 16 CFR Part 1201](#).

2409.4.2 Surface area.

The glass in glass elevator car doors shall be not less than 60 percent of the total visible door panel surface area as seen from the car side of the doors.