

Safety Glazing Standards: 16 CRF CPSC 1201 vs. ANSI 97.1

16 CRF CPSC 1201 Standard Description: A consumer product safety standard that prescribes the safety requirements for glazing materials. The safety requirements are designed to reduce or eliminate unreasonable risks of death or serious injury to consumers when glazing material is broken by human contact.

ANSI Z 97.1 Standard Description: Establishes the specifications and test methods for safety properties of safety glazing materials (designed to promote safety and reduce the likelihood of cutting and piercing injuries when the glazing materials are broken by human contact). Monolithic annealed glass in any thickness is not considered a safety glazing material under this definition.

| Standard/Regulation | | Applicable to Exposed Surface Area of one side of the lite |
|---------------------|--|---|
| 16 CRF CPSC 1201 | Category I 150 lb. - force (100 lb. bag dropped from 18 in. height) | Less or equal to 9 SqFt - Storm or Combination doors - Doors - Glazed panels regulated by IBC section 2406.4.2: Glazing in an individual fixed or operable panel adjacent to a door where the nearest vertical edge of the glazing is within a 24 in. arc or either vertical edge of the door in a closed position and where the bottom exposed edge of the glazing is less than 60 in. above the walking surface shall be considered hazardous location (not applicable to lites greater than 9 ft2). |
| | Category II 400 lb. - force (100 lb. bag dropped from 48 in. height) | Greater than 9 SqFt - Doors, storm doors, sliding into patio doors indoor glazing - Sliding patio doors (9 ft. or less) - Doors and enclosures regulated by section 2406.4.5 (9ft. or less) - Glazing in walls, enclosures or fences containing or facing hot tubs, spas, whirlpools, saunas, steam rooms, bathtubs, showers, and in our outdoor swimming pools where the bottom of the exposed edge of the glazing is less than 60 in. measured vertically above any standing or walking surface shall be considered hazardous location. This shall apply to single glazing and all panes in multiple glazing. |
| ANSI Z 97.1 | Class B 150 lb. - force (100 lb. bag dropped from 18 in. height) | Less or equal to 9 SqFt - Glazed panel regulated by section 2406.4.2* * From the International Building Code (IBC) chapter 24 "Glass and Glazing" section "2406" Safety Glazing". |
| | Class A 400 Lb. - Force (100 lb. bag dropped from 48 in. height) | Less or equal to 9 SqFt - Doors and enclosures regulated by section 2406.5 Greater than 9 SqFt - Glazed panels regulated by IBC section 2406.4.2* - Glazed panels regulated by IBC section 2406.4.3* Glazing in an individual fixed or operable panel that meets all of the following shall be considered hazardous location 1) Exposed area or an individual pane is greater than 9 SqFt 2) Bottom edge of the glazing is less than 18 in. above the floor 3) The top edge of the glazing is greater than 36 in. above the floor 4) One or more walking surface(s) are within 36 in. measured horizontally and in a straight line of the plane of the glazing. - Glazed panels regulated by IBC section 2406.4.5 |

*From international building code, Chapter 24, section 2406



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Impact Testing with 3M Films

ANSI = American National Standard

ANSI Z 97.1-2015 = For safety glazing materials used in buildings.

This 2015 ANSI version does not only test the load impact but in addition tests the power of the film's adhesive to keep glass fragments attached to the film (contained) when impacted. The detached particles are weighted, and size measured in order to pass the impact test.

| ANSI Z 97.1-2015 /CPCS 1201 Impact Testing | | |
|--|-----------------------------|-----------------------------|
| Ultra Scotchshield Line | | |
| Product | Category A (400 lbf Impact) | Category B (150 lbf impact) |
| Ultra Scotchshield S 800 | ● | ● |
| Ultra-Prestige S 70 and 50 | ● | ● |
| Ultra-Night Vision S 25 | ● | ● |
| Safety Series Line | | |
| Safety S 140 | ● | ● |
| Safety S 80 | ● | ● |
| Safety S70 | | ● |
| Safety S 40 | | ● |
| Safety S 70 X | | ● |
| ANSI Z 97.1-2009 | | |
| Safety Silver S 20 | ● | ● |
| Safety Neutral S 35 | ● | ● |
| Safety S 40 X | | ● |



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