

Illustration of the IBC Change Affecting Use of Wired Glass in Impact/Safety Applications

Outlined below is the old (IBC 2003) and new (IBC 2006) wording regarding Safety Glazing.

IBC 2003 SECTION 2406 SAFETY GLAZING

2406.1 Human impact loads. Individual glazed areas, including glass mirrors, in hazardous locations as defined in Section 2406.3 shall comply with Sections 2406.1.1 through 2406.1.5.

2406.1.1 CPSC 16 CFR 1201. Except as provided in Sections 2406.1.2 through 2406.1.5, all glazing shall pass the test requirements of CPSC 16 CFR 1201, listed in Chapter 35. Glazing shall comply with the CPSC 16 CFR, Part 1201 criteria, for Category I or II as indicated in Table 2406.1.

2406.1.2 Wired Glass. In other than Group E, wired glass installed in fire doors, fire windows and view panels in fire-resistant walls shall be permitted to comply with ANSI Z97.1.

2406.1.3 Plastic glazing. Plastic glazing shall meet the weathering requirements of ANSI Z97.1.

2406.1.4 Glass block. Glass block walls shall comply with Section 2101.2.5.

2406.1.5 Louvered windows and jalousies. Louvered windows and jalousies shall comply with Section 2403.5.

TABLE 2406.1
MINIMUM CATEGORY CLASSIFICATION OF GLAZING

EXPOSED SURFACE AREA OF ONE SIDE OF ONE LITE	GLAZING IN STORM OR COMB. DOORS (Cat. class)	GLAZING IN DOORS (Cat. class)	GLAZED PANELS REGULATED BY ITEM 7 OF 2406.3 (Cat. class)	GLAZED PANELS REGULATED BY ITEM 6 OF 2406.3 (Cat. class)	DOORS & ENCLOSURES REGULATED BY ITEM 5 OF SECTION 2406.3 (Cat. class)	SLIDING GLASS DOORS PATIO TYPE (Cat. class)
9 sq. ft. or less	I	I	No req.	I	II	II
More than 9 sq. ft.	II	II	II	II	II	II

IBC 2006 SECTION 2406 SAFETY GLAZING

2406.1 Human impact loads. Individual glazed areas, including glass mirrors, in hazardous locations as defined in Section 2406.3 shall comply with Sections 2406.1.1 through 2406.1.4.

2401.6.1.1 CPSC 16 CFR 1201. Except as provided in Sections 2406.1.2 through 2406.1.4, all glazing shall pass the test requirements of CPSC 16 CFR 1201, listed in Chapter 35. Glazing shall comply with the CPSC 16 CFR, Part 1201 criteria, for Category I or II as indicated in Table 2406.1.

2401.6.1.2 Plastic glazing. Plastic glazing shall meet the weathering requirements of ANSI Z97.1.

2401.6.1.3 Glass block. Glass-block walls shall comply with Section 2101.2.5.

2401.6.1.4 Louvered windows and jalousies. Louvered windows and jalousies shall comply with Section 2403.5.

There is no exception included in the current code and section 2401.6.1.1 must be interpreted that regardless of whether or not safety-rated glazing must be fire-rated, it must meet CPSC 16 CFR 1201.

TABLE 2406.1
MINIMUM CATEGORY CLASSIFICATION OF GLAZING

EXPOSED SURFACE AREA OF ONE SIDE OF ONE LITE	GLAZING IN STORM OR COMB. DOORS (Cat. class)	GLAZING IN DOORS (Cat. class)	GLAZED PANELS REGULATED BY ITEM 7 OF 2406.3 (Cat. class)	GLAZED PANELS REGULATED BY ITEM 6 OF 2406.3 (Cat. class)	DOORS & ENCLOSURES REGULATED BY ITEM 5 OF SECTION 2406.3 (Cat. class)	SLIDING GLASS DOORS PATIO TYPE (Cat. class)
9 sq. ft. or less	I	I	No req.	I	II	II
More than 9 sq. ft.	II	II	II	II	II	II

Education Group E occupancy includes, among others, the use of a building or structure, or a portion thereof, by six or more persons at any one time for educational purposes through the 12th grade. The use of a building or structure, or portion thereof, for educational, supervision or personal care services for more than five children older than 2 1/2 years of age, shall be classified as a Group E occupancy.