

**2406.5 Department of Civil Defence access panels.** Department of Civil Defence glass access panels shall be of tempered glass. For insulating glass units, all panes shall be tempered glass.

## **SECTION 2407 GLASS IN HANDRAILS AND GUARDS**

**2407.1 Materials.** Glass used as a handrail assembly or a *guard* section shall be constructed of either single fully tempered glass, laminated fully tempered glass or laminated heat-strengthened glass. Glazing in railing in-fill panels shall be of an *approved* safety glazing material that conforms to the provisions of Section 2406.1.1. For all glazing types, the minimum nominal thickness shall be  $\frac{1}{4}$  inch (6.4 mm). Fully tempered glass and laminated glass shall comply with Category II of CPSC 16 CFR 1201 or Class A of ANSI Z97.1, listed in Chapter 35.

**2407.1.1 Loads.** The panels and their support system shall be designed to withstand the loads specified in Section 1607.7. A safety factor of four shall be used.

**2407.1.2 Support.** Each handrail or *guard* section shall be supported by a minimum of three glass balusters or shall be otherwise supported to remain in place should one baluster panel fail. Glass balusters shall not be installed without an attached handrail or *guard*.

**Exception:** A top rail shall not be required where the glass balusters are laminated glass with two or more glass plies of equal thickness and the same glass type when *approved* by the *building official*. The panels shall be designed to withstand the loads specified in Section 1607.7.

**2407.1.3 Parking garages.** Glazing materials shall not be installed in handrails or *guards* in parking garages except for pedestrian areas not exposed to impact from vehicles.

**2407.1.4 Glazing in wind-borne debris regions.** Glazing installed in in-fill panels or balusters in *wind-borne debris regions* shall comply with the following:

**2407.1.4.1 Ballusters and in-fill panels.** Glass installed in exterior railing in-fill panels or balusters shall be laminated glass complying with Category II of CPSC 16 CFR 1201 or Class A of ANSI Z97.1.

**2407.1.4.2 Glass supporting top rail.** When the top rail is supported by glass, the assembly shall be tested according to the impact requirements of Section 1609.1.2. The top rail shall remain in place after impact.

## **SECTION 2408 GLAZING IN ATHLETIC FACILITIES**

**2408.1 General.** Glazing in athletic facilities and similar uses subject to impact loads, which forms whole or partial wall sections or which is used as a door or part of a door, shall comply with this section.