



DIRECTIVE

No: D-L4 100603 3

INSTALLATION OF GLASS

This Directive is being issued by a provincial safety manager pursuant to section 30 of the Safety Standards Act.

Date of Issue: June 3, 2010

General Details

This directive is issued to all elevator contractors with class A, RA and IC licenses to clarify requirements regarding Glass in Elevator Cars, in Hoistway Doors and in the construction of Hoistway Enclosures. The CSA B44-04 Safety Code for Elevators and Escalators ("Safety Code") and the applicable glass standards specifies the Type and Markings required.

Specific Details

1. Types of glass

Laminated glass, safety glass, or safety plastic where used shall comply with **CAN/CGSB-12.1, CAN/CGSB-12.11, or CAN/CGSB-12.12**; whichever is applicable.

2. Markings on Glass

Markings as specified in the applicable standard shall be on each separate piece of glass and shall remain visible after installation.

3. Safety Code referenced Standards specify the categories and markings as follows:

CAN/CGSB-12.1-M90 Tempered or Laminated Glass

A) 3.1.3 Categories

Category I – Safety glass subjected to impact at drop height of 460mm (205 J kinetic energy) having glass area of 0.8 m² or less.

Category II – Safety glass subjected to impact at drop height of 1220 mm (540 J kinetic energy) having glass area greater than 0.8 m².

B) 5.5 Product Marking – After having successfully met the requirements of this standard, like products of the same nominal thickness produced in the same manner as the specimens which conform, shall be legibly and permanently marked with the **manufacturer's name and/or trademarks, and the characters "CAN/CGSB-12.1-M"** if the product meets the requirements of the standard for both Categories I & II, **or the characters "CAN/CGSB-12.1-M-1"** if the product meets the requirements of the standard for Category I only.



The CAN/CGSB- 12.11 - M90 Wired Safety Glass

This standard does not address product marking requirements.

CAN/CGSB-12.12 - M90 Plastic Glazing Sheets

A) 3.1.3 Categories

Category I – Plastic sheeting subjected to impact at drop height of 460 mm (205 J kinetic energy)

Category II – Plastic sheeting subjected to impact at drop height of 1220 mm (540 J kinetic energy)

B) 5.5 Product Marking – After having successfully met the requirements of this standard, like products of the same nominal thickness produced in the same manner as the specimens which conform, shall be legibly and permanently marked with the **manufacturer's name and/or trademarks, and the characters "CAN/CGSB-12.12"** if the product meets the requirements of the standard for both Categories I & II, **or the characters "CAN/CGSB-12-1"** if the product meets the requirements of the standard for Category I only. Products that meet the requirement for resistance to aging (par 5.4), but not resistance to weathering (par 5.3) shall be marked "Indoor Use Only."

CAN/CGSB-12.5 Mirrors, silvered

The Canadian General Standards Board (CGSB) withdrew the standard in May 2004 as the standard is no longer in compliance with National Standard of Canada requirements as established by the Standards Council of Canada (SCC). This standard has not been updated since it was published in August 1986 and CGSB has no current alternative to the withdrawn standard.

In the interim until a new National Standard is adopted, Mirror Glass as referenced in CSA B44-04 2.14.1.8.3 will be allowed if equivalency to CAN/CGSB-12.1-M90 Tempered or Laminated Glass is demonstrated. The mirror glass must comply in regards to the testing and markings as specified in the standard. It must also comply with the fire requirements for flame spread and smoke as specified in CSA B44-2004 Safety Code for Elevators and Escalators c2.14.2.1 Material for car enclosures, enclosure linings, and floor coverings.

A handwritten signature in black ink, appearing to read "Janice Lee".

Janice Lee, P. Eng.
Provincial Elevating Safety Manager



References:

Bill 19 – 2003 Safety Standards Act

B.C. Reg. 101/2004 Elevating Devices Safety Regulation

B.C. Reg. 105/2004 Safety Standards General Regulation

CSA B44-04 Safety Code for Elevators and Escalators

CAN/CGSB-12.1 - M90 Tempered or Laminated Glass

CAN/CGSB-12.12 - M90 Plastic Glazing Sheets

CAN/CGSB- 12.11 - M90 Wired Safety Glass

CAN/CGSB-12.5 Mirrors, silvered

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