



ग्राहक की खुशी के लिए प्रतिबद्ध
Committed to Customers' Delight

नेशनल बिल्डिंग्स कन्स्ट्रक्शन कार्पोरेशन लिमिटेड
(भारत सरकार का उद्यम)

NATIONAL BUILDINGS CONSTRUCTION CORPORATION LIMITED
(A Government of India Enterprise)



An IS/ISO 9001
Company
(For Consultancy &
Project Management Division)

No. AGM / Safety /2011-12 / 311

To,
All Executive Directors,
H- RBG's, H-SBG's,
HoD's at Corporate Office ,
NBCC Ltd

Subject: Guidelines on use of Glass in Buildings Human Safety.

Dear Sir,

The use of glass in buildings has increased manifolds. The worldwide increase in use of glass has become a matter of concern from human safety point of view.

Recognizing the gravity of the problem and uncertainty faced by the Engineers, Architects and users, "Guidelines on Use of Glass in Buildings- Human Safety 'has been brought by Confederation of Construction Products and Services, New Delhi.

These guidelines suggest how to regulate use of glass or specifying use of Safety Glass at critical locations where injury due to glass breakage is high. As per the guidelines, following are the conditions on uses of glass in buildings.:

1. Safety Glazing material shall be used where
 - a) any glazing is within 1.5 metre above the floor level of building
 - b) there is danger of falling infill glass material from overhead glazing and
 - c) there is danger of falling due to change in floor level
 - d) in case of balustrades, stairs and floors.
2. Any type of glass in locations having Sill Height $H_s \geq 0.75$ m or with Residual Protection shall be used as vertical walls.
3. Safety glass in locations having no risk of fall (Falling height $H_f \leq 1.5$ m) and Sill Height $H_s < 0.75$ m shall be used as vertical walls.
4. Safety glass in locations having risk of fall(Falling height $H_f \geq 1.5$ m) and Sill Height $H_s < 0.75$ m shall be used as vertical walls.
5. Laminated Safety Glass shall be used in horizontal or sloped glazing and as balustrade, parapet or a railing.

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ZERO TOLERANCE
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CORPORATE OFFICE

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6. Toughened (Tempered) or Laminated safety Glass , subject to meeting the definitions and test standards as outlined in the IS : 2553 and the Guidelines on use of glass in buildings , prepared by CCPS shall be used in buildings .
7. In case of external laminated glass facades, openable portions shall be left at regular distances as required for fire fighting and smoke exhaust.
8. Clear glass panels capable of being mistaken for an unimpeded path of travel should be marked to make them visible by incorporating manifestation as mentioned in the CCPS guidelines.
9. However, if the smaller dimension of pane is 250 mm or less, and its area is 0.50 sqm or less, glass not conforming to safety requirements can also be used.

It is, therefore , enjoined upon all engineers, architects of NBCC to ensure that these guidelines are followed in its true letter and spirit , while planning, designing , executing, and approving buildings / projects to ensure safe use of glass.

A copy of the said guidelines is enclosed for your ready reference and perusal and wide publicity to all the zones, units, sites etc of NBCC under your administrative control and other stakeholders, and including the same as a part of technical specifications of NBCC tender documents.

This issues with the approval of Executive Director (PMG)

(N.P. Anand)

Addl. General Manager (Safety)

Encl:- Guidelines on use of Glass in Buildings- Human Safety-as stated.

Copy to :-

DGM to CMD for kind information of CMD pl

EO to Director (Projects) for kind information of Director (Projects) pl.

Sr EO to Director (Finance), for kind information of Director (Finance) pl.

EO to CVO for kind information of CVO pl.

Confederation of Construction Products & Services, S1 &S2, 2nd floor, Abhishek Tower D2, Alaknanda Commercial Complex, New Delhi- 110 019 - Kind Attn. Er. Shashikant, Adviser.

Addl. General Manager (Safety)

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